Canon

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Revisioin 0

Inner Finisher-A1

Inner Finisher Additional Tray-A1

Service Manual

Produt Outline
Technology
Periodic Servicing
Parts Replacement and Cleaning Procedure
Installation(Inner Finisher-A1)
Installation(Addtional Tray-A1)

Application

This manual has been issued by Canon Inc. for qualified persons to learn technical theory, installation, maintenance, and repair of products. This manual covers all localities where the products are sold. For this reason, there may be information in this manual that does not apply to your locality.

Corrections

This manual may contain technical inaccuracies or typographical errors due to improvements or changes in products. When changes occur in applicable products or in the contents of this manual, Canon will release technical information as the need arises. In the event of major changes in the contents of this manual over a long or short period, Canon will issue a new edition of this manual.

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Caution

Use of this manual should be strictly supervised to avoid disclosure of confidential information.

Explanation of Symbols

The following symbols are used throughout this Service Manual.

Symbols	Explanation
	Check.
	Check visually.
	Check the noise.
	Disconnect the connector.
	Connect the connector.
	Remove the cable/wire from the cable guide or wire saddle.
	Set the cable/wire to the cable guide or wire saddle.
	Remove the screw.
	Tighten the screw.

Symbols	Explanation
	Remove the claw.
	Insert the claw.
	Use the bundled part.
	Push the part.
	Plug the power cable.
	Turn on the power.

The following rules apply throughout this Service Manual:

1. Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation.

   In the diagrams, ▮▮▮▮ represents the path of mechanical drive; where a signal name accompanies the symbol, the arrow ⟶ indicates the direction of the electric signal.
   The expression "turn on the power" means flipping on the power switch, closing the front door, and closing the delivery unit door, which results in supplying the machine with power.

2. In the digital circuits, '1' is used to indicate that the voltage level of a given signal is "High", while '0' is used to indicate "Low". (The voltage value, however, differs from circuit to circuit.) In addition, the asterisk (*) as in "DRMD*" indicates that the DRMD signal goes on when '0'.

   In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

The descriptions in this Service Manual are subject to change without notice for product improvement or other purposes, and major changes will be communicated in the form of Service Information bulletins.
All service persons are expected to have a good understanding of the contents of this Service Manual and all relevant Service Information bulletins and be able to identify and isolate faults in the machine.

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Safety Precautions

- Notes Before it Works Serving

Notes Before it Works Serving

Caution:

At servicing, be sure to turn off the power source according to the specified steps and disconnect the power plug.

Caution:

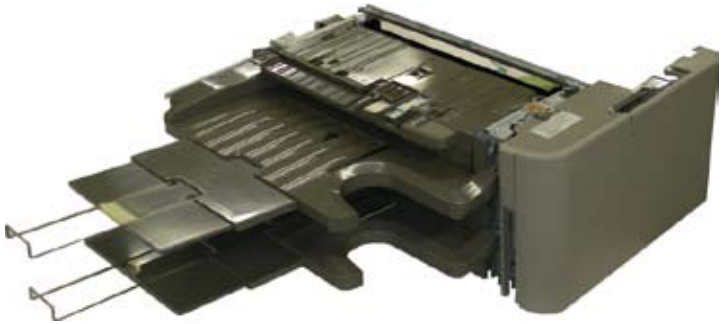
Do not turn off the power switch when downloading is under way.

Turning off the main power switch while downloading is under way can disable the machine.

1

Produt Outline

- Names of Parts
- Specifications
- Names of Parts



Features

- A variety of finishing functions
  2 delivery tray + Multi stapling

- Large tray capacity (500 sheets+)
  Utilize the inner room of the system

Specifications

Item			Specifications
Stacking method			Stacking tray descending method
Paper ejection			Face-down ejection
Stacking alignment			Center alignment
Stackable paper size	Feeding direction		139.7mm – 457mm
	Cross-feeding direction		100.0mm – 320mm
Paper weight			52-256g/m2 (Japanese post card supported))
Number of tray			1 (+additional option tray)
Finishing modes	Non-sort stacking		A3/A4/A4R/A5/A5R/B4/B5/B5R/Japanese Post Card/EXE/LDR/LGL/LTR/LTR-R/STMT/STMT-R 8K/16K/16K-R SRA3(320X450)/A3+(305X457)
	Bunch offset stacking		A3/A4/A4R/B4/B5 LDR/LGL/LTR/LTR-R 8K/16K
	Staple stacking		A3/A4/A4R/B4/B5 LDR/LGL/LTR/LTR-R 8K/16K
Stacking capacity	Processing tray		S size: 50 sheets or Less Length in feeding direction: 139.7mm-215.9mm L size: 30 sheets or Less Length in feeding direction: more than 215.9mm-457.0mm
	Standard tray (lower tray) only		S size: 62.5mm high or less (62.5mm is equivalent to 500 sheets+/-.) L size: 62.5mm high or less (62.5mm is equivalent to 500 sheets+/-.)
	When the Additional Tray-A1 is installed	Additional Tray-A1 (Upper tray))	S size: 12.5mm high or less (12.5mm is equivalent to 100 sheets+/-.) L size: 12.5mm high or less (12.5mm is equivalent to 100 sheets+/-.)
		Standard tray (lower tray)/ Random stacking	S size: 25.0mm high or less (25.0mm is equivalent to 200 sheets+/-.) L size: 25.0mm high or less (25.0mm is equivalent to 200 sheets+/-.)
		Standard tray (lower tray)/ Cascade stacking	S size: 62.5mm high or less (62.5mm is equivalent to 500 sheets+/-.) L size: 62.5mm high or less (62.5mm is equivalent to 500 sheets+/-.)
	Stapled stack		Above-mentioned heights or within 30 books

Item		Specifications
Capable size for alignment	Non-sort stacking	Width: 100mm-320mm
	Bunch offset stacking	Width: 210mm-297mm
	Staple stacking	Width: 210mm-297mm
Paper detection	Processing tray	Available
	Standard tray/ Additional Tray-A1	Available
Capable size for stapling	Single corner stapling (front or rear	A3/B4/A4/A4R/A5
		LDR/LGL/LTR/LTR-R
		8K/16K
	Double stapling (sidestitching)	A3/B4/A4/A4R/A5
		LDR/LGL/LTR/LTR-R
		8K/16K
Number of paper stapled	Small size (A4/B5/LTR/16K)	Plain paper (52-81.4g/m2) : 50 sheets (Max: 2 sheets x Cover paper (256g/m2) + 48 sheets x bookblock (81.4g/m2))
		Plain paper (more than 81.4g/m2-105.0g/m2): 30 sheets
		Thick paper (more than 105.0g/m2 – 256g/m2: 2 sheets
	Large size (A3/B4/A4R/LDR/ LGL/ LTR-R/8K)	Plain paper(52-81.4g/ 30m2) : 30 sheets
		Plain paper (more than 81.4g/m2-105.0g/m2): 20 sheets
		Thick paper (more than 105.0g/m2 – 256g/m2: 2 sheets
Staple replenishment		Exclusive staple cartridge (5000 staples)
Staple		Exclusive staple
Staple run-out detection		Available
Manual stapling		Unavailable
Control panel		Not exsisting
Power supply		Supplied by the host machine
Dimensions		424.2mm × 552.1mm × 228.5mm(W × D × H)
Mass		Approx. 9.8Kg

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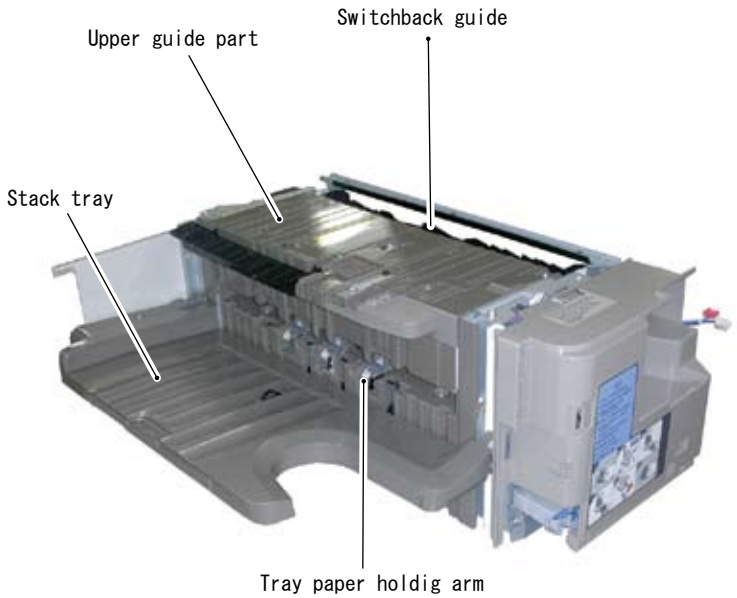
Names of Parts

External View 1



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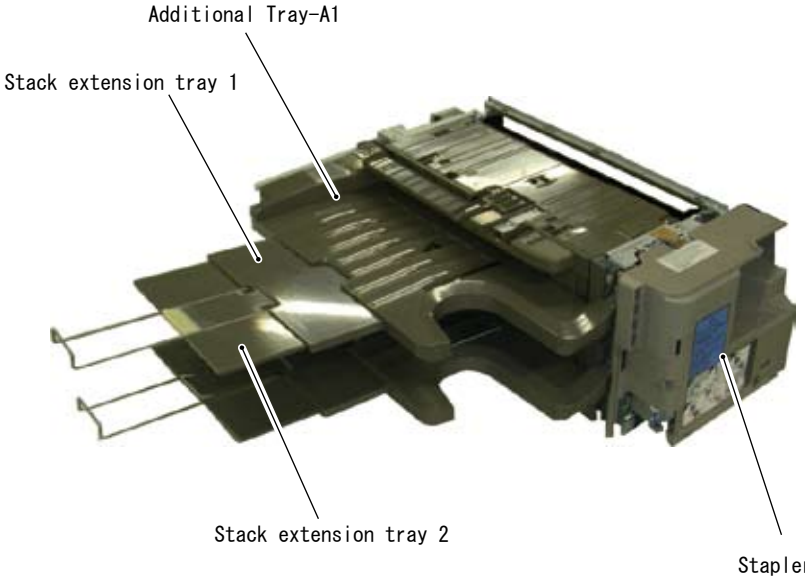
External View 2



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External View 3

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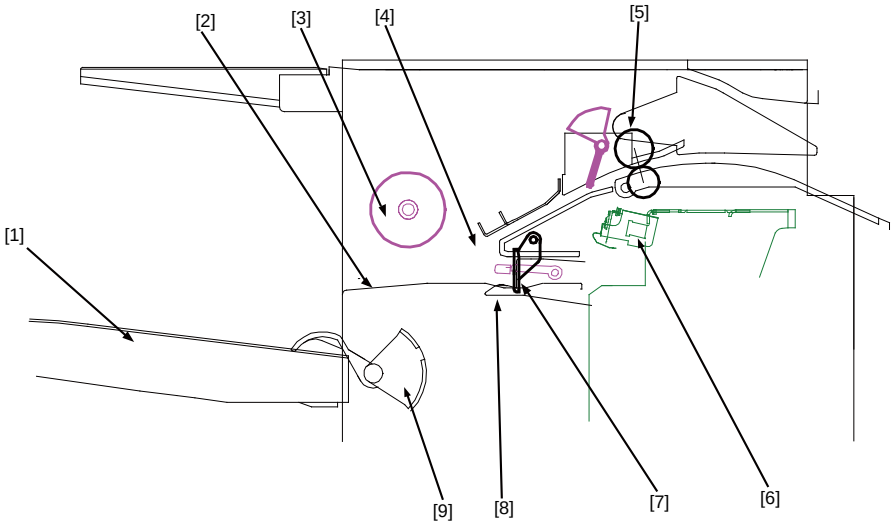
Cross Section



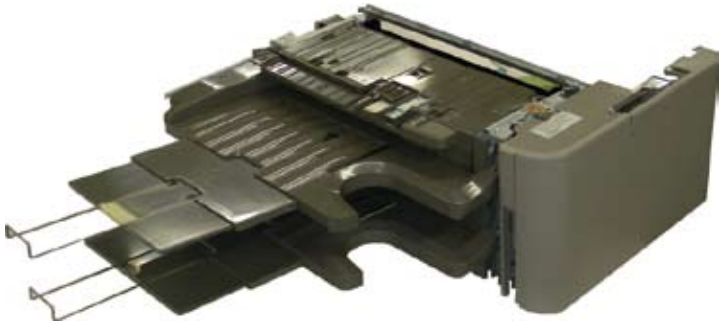
F-1-4

[1]	Stack tray	[6]	Stapler
[2]	Processing tray	[7]	Stapler
[3]	Shift roller	[8]	Gripper
[4]	Switchback part	[9]	Stack height detection lever
[5]	Entrance roller		

2

Technology

- Basic Configuration
- Controls



Basic Configuration

Outline of basic operation

■ Non-sort operation

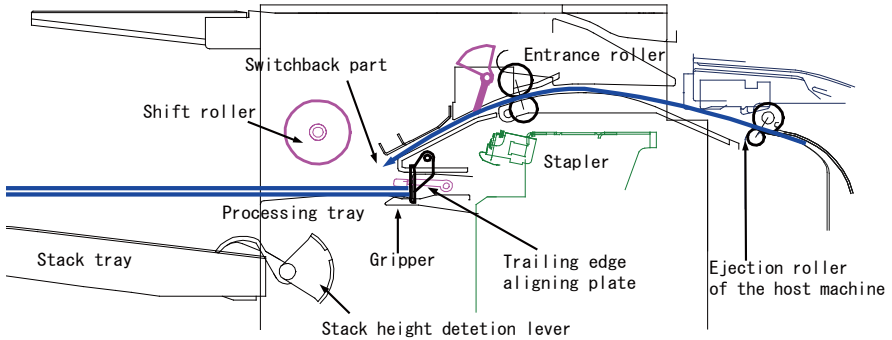
1.Outline

Ejected paper from the host machine is aligned and stacked on the processing tray. Paper stack is then ejected on the stack tray. The paper stack is placed at the center in cross feeding direction.

2.Details

- Outline of operation

1)Ejected paper from the host machine is conveyed into the finisher.
2)Before paper trailing edge passes by the entrance roller, the shift roller goes down to press the paper. After the trailing edge passes by the entrance roller, the shift roller stops turning.
3)The gripper opens and the shift roller reverses to transport the paper stack to the aligning plate.
4)The shift roller goes up to release the paper stack and the gripper closes to grip the stack.
5)The above steps repeat themselves up until the number of the paper on the processing tray becomes 10 (1 for the envelope) or the operation complete signal is issued whichever comes first.
6)Gripper starts to eject the paper stack on the stack tray.
7)Stack height detection lever moves up to evacuate itself and moves down again to detect the stacking height when the stack ejection has completed.



[Non-sort stacking operation]

F-2-1

■ Offset operation

1.Outline

Stacking the ejected paper from the host machine onto the processing tray. Every paper stack consisting of 10sheets of paper is offset and ejected on the stack tray.

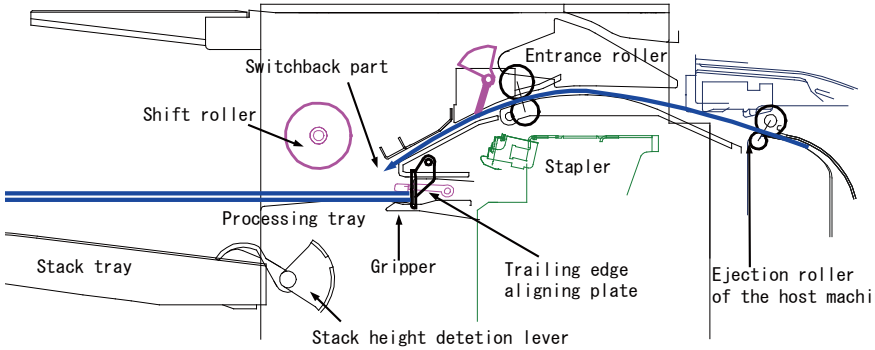
2.Details

- Outline of operation

1)1)through 5) are the same operation as "Non-sort".
6)The shift roller moves to the center or rear-end position and align the paper stack to locate it at specified shift position.
7)The shift roller goes up to release the paper stack and the gripper closes to grip the stack.
8)The shift roller returns to its idle position and the above steps repeats themselves till the last paper.
9)Gripper starts to eject the paper stack on the stack tray.
10)Stack height detection lever moves up to evacuate itself and moves down again to detect the stacking height when the stack ejection has completed.□

- Alignment position

Center shift: No offsetting (Non-sort position)
Rear-end shift: From the center reference position to the rear-end position; 178.5mm



[Offset stacking]

F-2-2

■ Stapling operation

1.Outline

Stacking the ejected paper from the host machine onto the processing tray. Stapling and ejecting the paper stack on the stack tray.

2.Details

- Outline of operation

"Angle stapling at 1 front corner", "Angle stapling at 1 rear corner" and "Double stapling (side stitching)"

1)1) through 7) are the same operation as the offset operation.

2)Gripper conveys the paper stack to the stapling position with holding the stack.

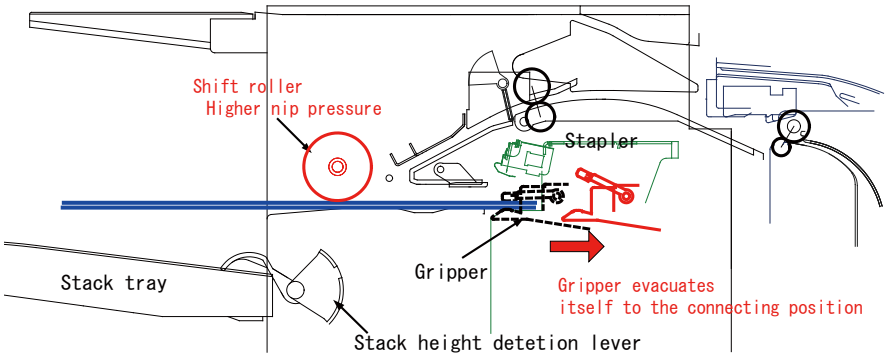
"The operation 9) and 10) are applicable only to the front/ rear corner stapling."

9)After stapling the paper stack, the gripper starts to eject the stack on the stack tray.

10)At the same time, the stacking height detection lever moves up. The detection lever moves down when the paper stack has ejected on the stack tray to detect the paper.

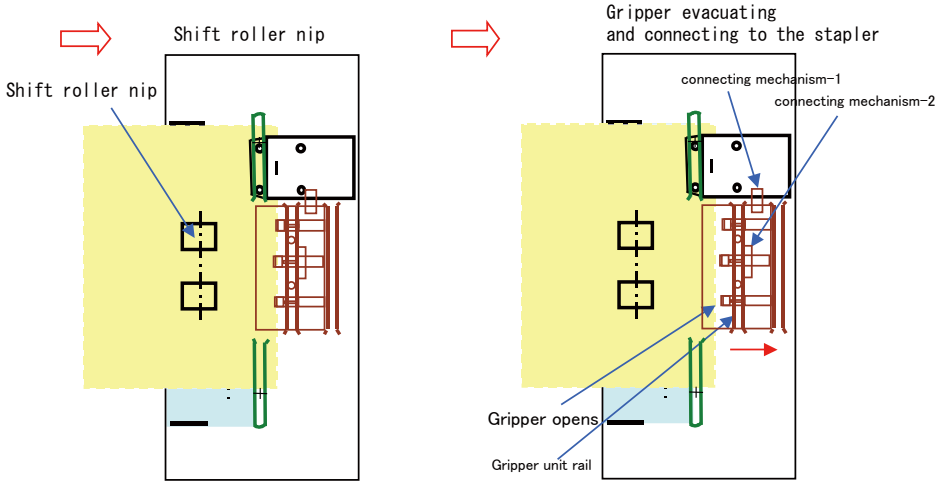
"The operation 9)' through 18) are applicable only to the double stapling (side stitching)."

9)The shift roller moves down and gives higher pressure to the paper stack. Gripper then opens and evacuates itself to the connecting position with the stapler.



[Gripper evacuating operation]

F-2-3



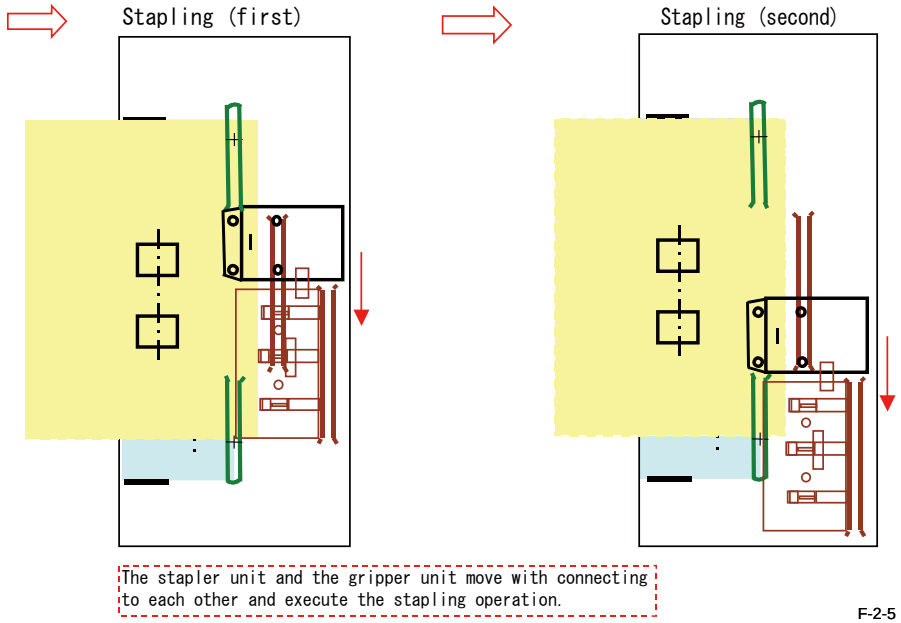
[Gripper evacuating operation (Top view)]

F-2-4

10)When the gripper closes, the connecting lever moves downward to connect the stapler and the gripper to each other, so the stapler can travel back and forth.

11)Stapler unit travels to its first stapling position to execute stapling.

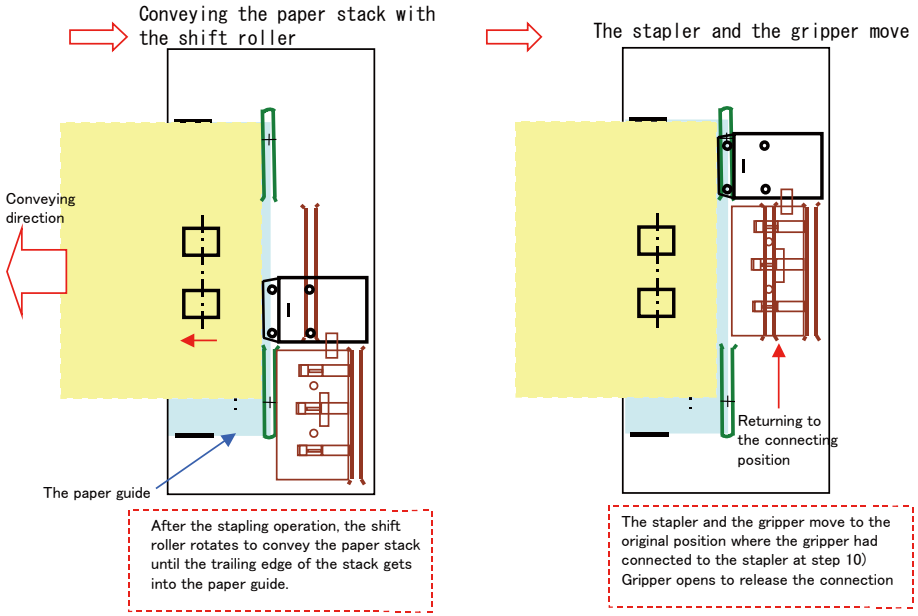
12)Stapler unit travels to its second stapling position to execute stapling.


Stapling (first)
Stapling (second)
The stapler unit and the gripper unit move with connecting to each other and execute the stapling operation.

F-2-5

13)The shift roller starts up to convey the paper stack in the delivering direction and stops after the shift roller evacuates the trailing edge of the paper stack inside the path guide.

14)While the shift roller conveys the paper stack, the stapler starts to move to the position where the gripper had connected to the stapler at step 10)


Conveying the paper stack with the shift roller
The stapler and the gripper move
Conveying direction
Returning to the connecting position
The paper guide
After the stapling operation, the shift roller rotates to convey the paper stack until the trailing edge of the stack gets into the paper guide.
The stapler and the gripper move to the original position where the gripper had connected to the stapler at step 10)
Gripper opens to release the connection

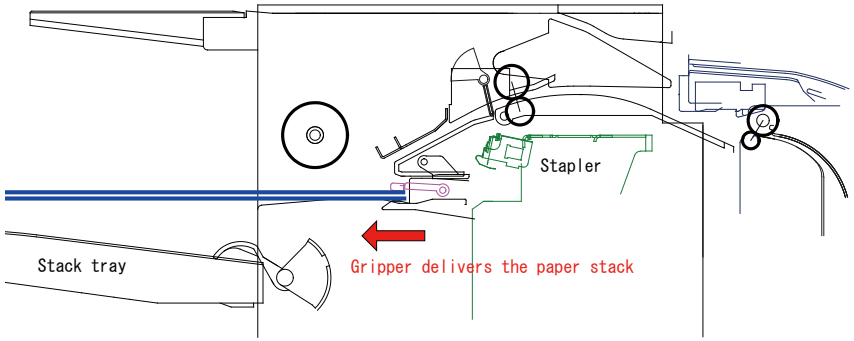
F-2-6

15)When the gripper opens, the connecting lever moves upward to release the connection to the stapler.

16)Gripper moves to the position where there is the paper stack evacuated in the path guide and closes.

17)The gripper starts to deliver the paper stack.

18)At the same time, the stacking height detection lever moves up. The detection lever moves down when the paper stack has ejected on the stack tray to detect the paper.



[Paper stack delivery]

F-2-7

Controls

Servicing Work

Scheduled Servicing

When the endurance time of a part expires soon, replace and/or clean it as required.

Item	Part name	Expected service life	Qty	Operation	remarks	Reference
Periodically replaced parts	none					
Consumable parts	Stapler	500,000 sheets	1	Replacement		p. 4-4
	Offset Roller	1,000,000 sheets	2	Replacement		p. 4-5
	Shutter unit	1,000,000 sheets	1	Replacement	Static eliminator at the exit part	p. 4-6
	Paper retainer(Front)	1,000,000 sheets	1	Replacement	Static eliminator at the entrance	p. 4-7
	Paper retainer(Rear)	1,000,000 sheets	1	Replacement	Static eliminator at the entrance	p. 4-7
Periodically serviced parts	none					

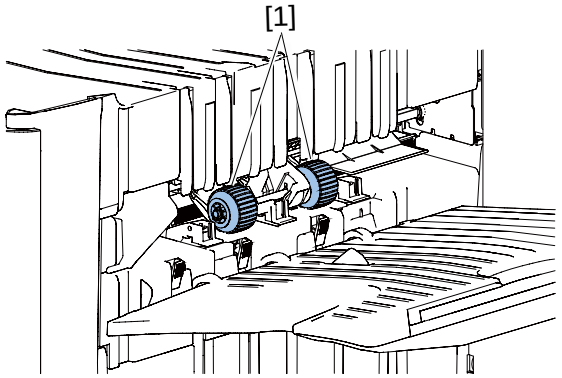
T-2-1

Customer maintenance

Cleaning the offset roller

- Details

  Offset roller should be cleaned once a month to maintain the accuracy of the stacking alignment as foreign articles like dust are likely to stick to the roller.



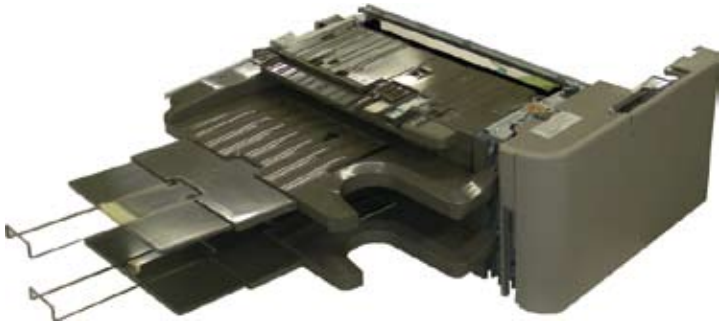
F-2-8

- Instruction

  1) With holding up the roller a little, rub off paper dusts, etc. by a moist cloth.

MEMO:
If the optional tray is installed, it is easier to clean the rollers just after delivering a paper onto the optional tray since the optional tray gets descended lower than the rollers.

3 Periodic Servicing



Periodic Service Works

Periodic Service Works

PR:Replacement (Periodically replaced parts) CR:Replacement (consumable parts) CL:Cleaning LU:Lubrication AD:Adjustment CH:Maintenance

As of Jule 2009

No.	Category	Part name	Part number	Qty	Interval	Remarks	Adjusted/ not adjusted	Counter	Reference
1	Stapler	Stapler	FM4-2710	1	CR/500,000 sheets		None	FIN-STPR	p. 4-4
2	Processing tray	Offset Roller	4A3-1121	2	CR/1,000,000 sheets		None	OFST-RL	p. 4-5
3		Shutter unit	FL3-4298	1	CR/1,000,000 sheets		None	DL-STC	p. 4-6
4		Paper retainer(Front)	FL3-4304	1	CR/1,000,000 sheets		None	ENT-STC	p. 4-7
5		Paper retainer(Rear)	FL3-4305	1	CR/1,000,000 sheets		None	ENT-STC	p. 4-7

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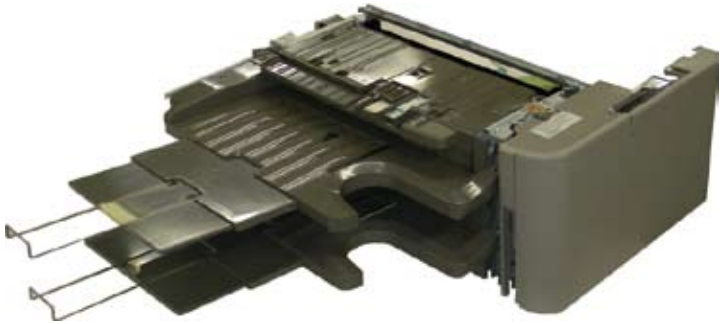
4

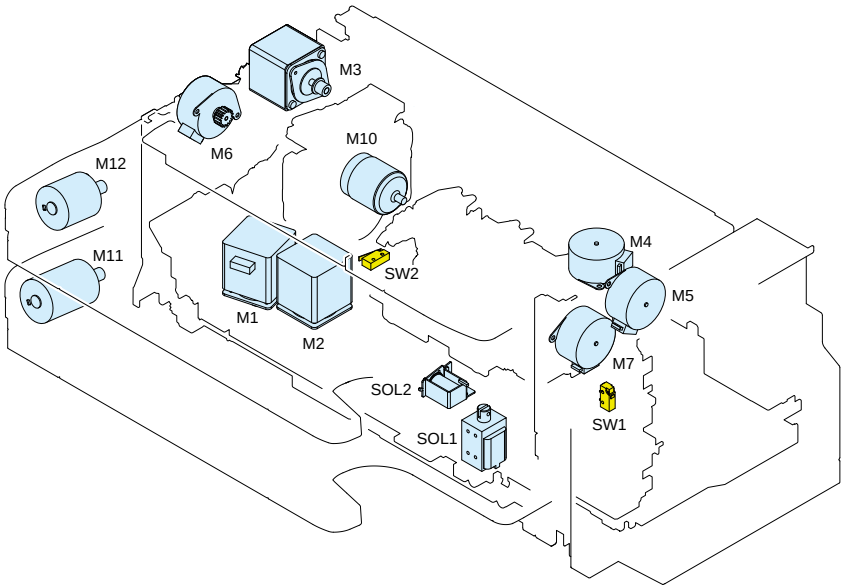
Parts Replacement and Cleaning Procedure



- List of Parts
- Periodic Parts Replacement, Consumable Parts, and Cleaning PartsSolenoids

List of Parts

Motors/Switches/Solenoids

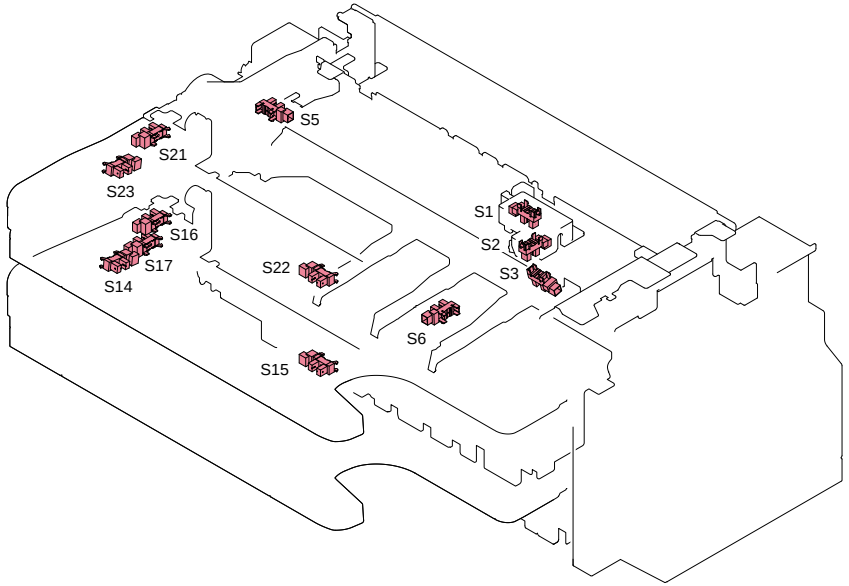


F-4-1

No.	Part name	Part number	Reference
M1	STP move motor	FK2-8750	
M2	Gripper unit move motor	FK2-8750	
M3	Feed motor	FK2-8751	
M4	Shift motor	FK2-8753	
M5	Shift roller release motor	FK2-8752	
M6	Entrance roller release /stopper HP motor	FK2-8752	
M7	Gripper open/close motor	FK2-8752	
M10	Stapler motor	-	
M11	Tray lift motor	FK2-8754	
M12	Additional Tray lift motor	FK2-8754	
SW1	Front cover switch	FM4-2136	
SW2	Stapler safety switch	FM4-2152	
SOL1	Paper lever drive solenoid	FL3-4299	
SOL2	Stapler solenoid	FK2-8762	

T-4-1

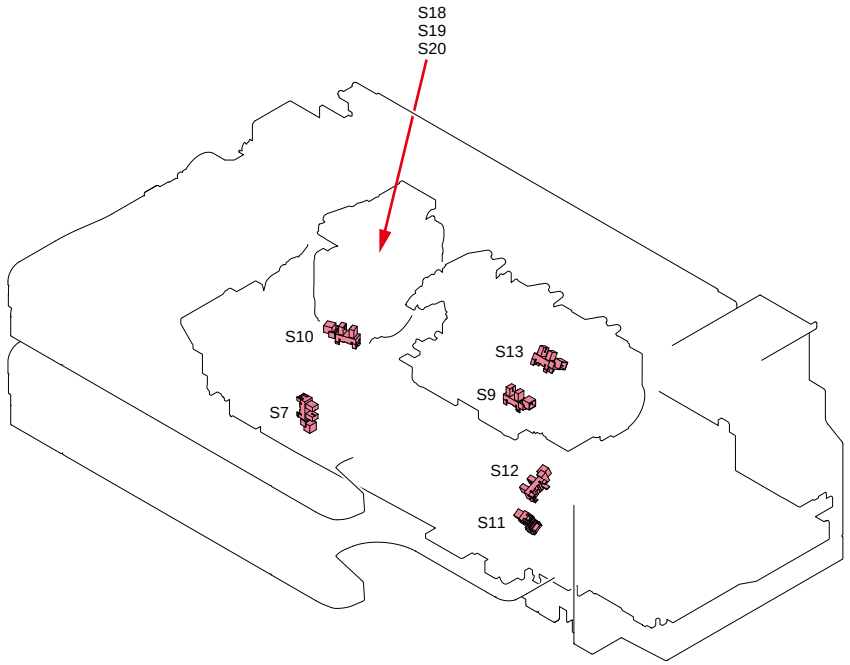
Motors



No.	Part name	Part number	Reference
S1	Entrance sensor	WG8-5836	
S2	Shift roller HP sensor	WG8-5836	
S3	Shift roller release sensor	WG8-5836	
S5	Entrance roller release /stopper HP sensor	WG8-5836	
S6	Processing tray sensor	WG8-5836	
S14	Stack tray clock sensor	WG8-5836	
S15	Stack tray paper sensor	WG8-5836	
S16	Stack tray middle sensor	WG8-5836	
S17	Stack tray lower limit sensor	WG8-5836	
S21	Additional tray upper/Lower limit sensor	WG8-5836	
S22	Additional tray paper sensor	WG8-5836	
S23	Additional tray clock sensor	WG8-5836	

T-4-2

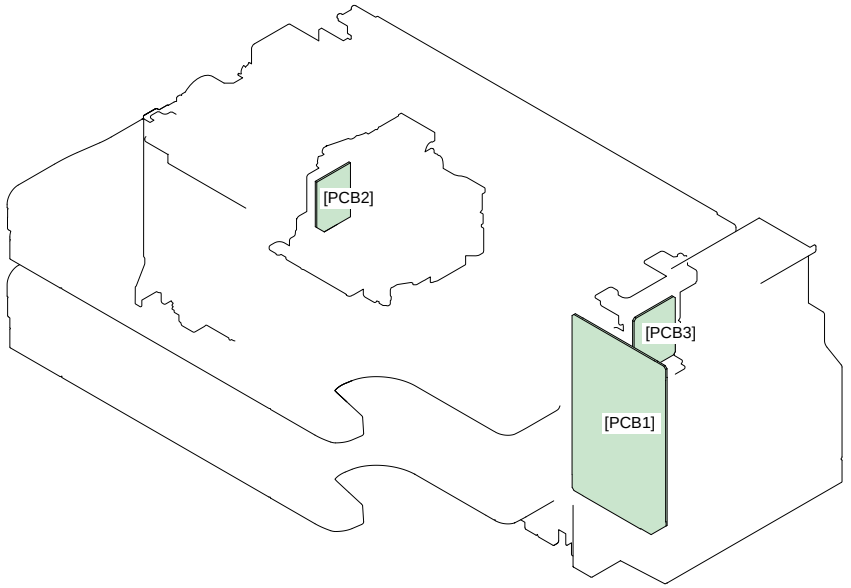
Sensors



No.	Part name	Part number	Reference
S7	Gripper unit HP sensor	WG8-5836	
S9	Gripper stapler connection sensor	WG8-5836	
S10	Stapler move HP sensor	WG8-5836	
S11	Paper surface sensor1	WG8-5836	
S12	Paper surface sensor2	WG8-5836	
S13	Gripper arm sensor	WG8-5836	
S18	Stapler HP sensor	-	
S19	Stapler edging sensor	-	
S20	Stapler sensor	-	

T-4-3

PCBs



No.	Part name	Part number	Reference
PCB1	Finisher controller PCB	FM4-2124	
PCB2	Flexible cable broadcast PCB	FM4-2125	
PCB3	Additional tray PCB	FM4-2126	

T-4-4

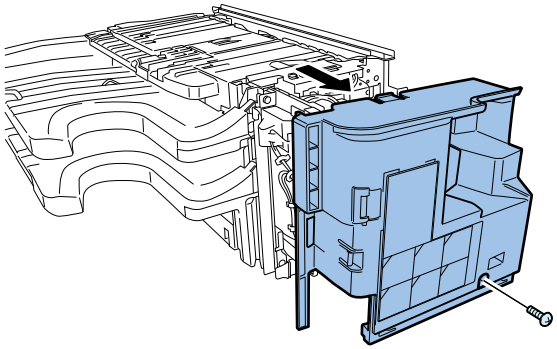
Consumable Parts Requiring Periodic Replacement and Cleaning Points

Removing the Stapler Unit

1) Remove the screw to remove the inner cover.

x1

x1

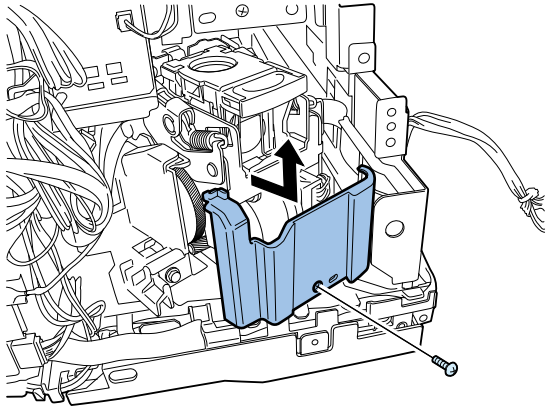


F-4-2

2) Remove the screw to remove the stapler cover.

x1

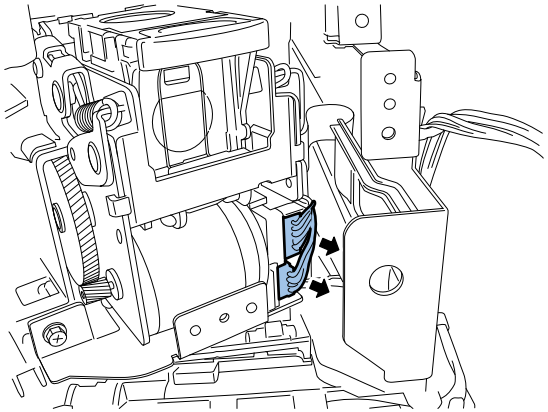
x2



F-4-3

3) Remove the two connectors.

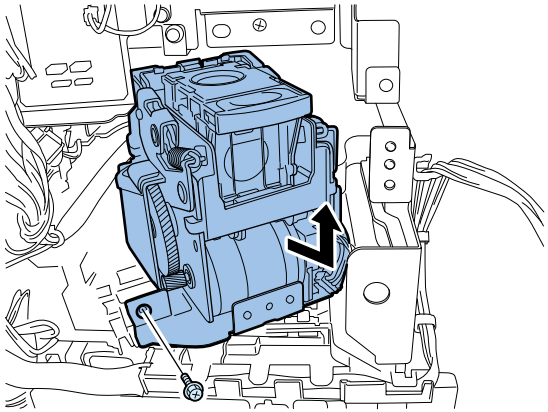
x2



F-4-4

4) Remove the screw to remove the stapler.

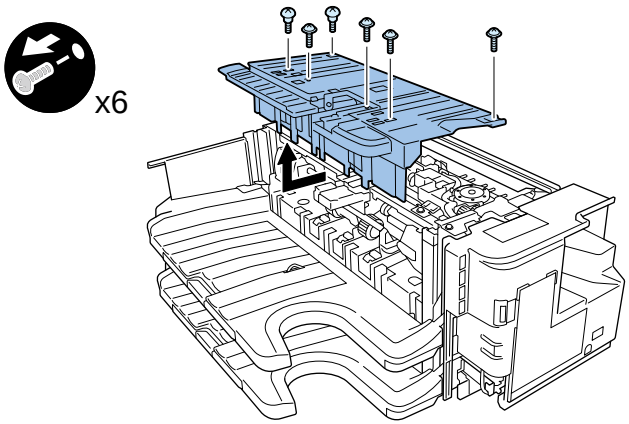
x1



F-4-5

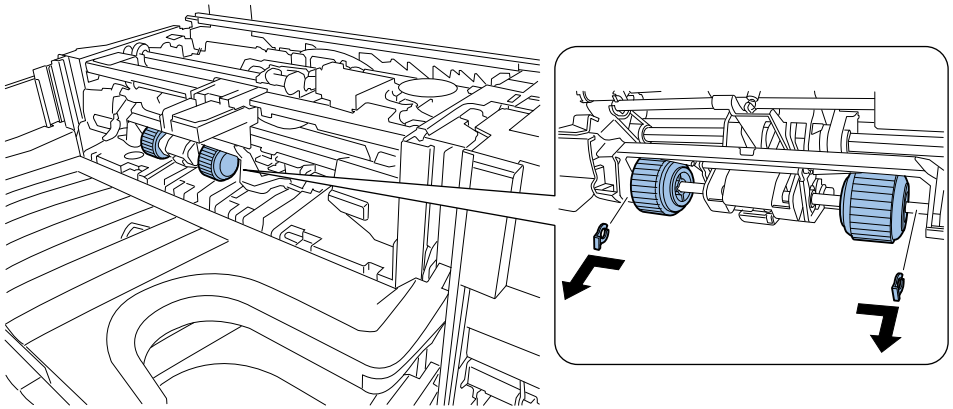
Removing the Offset Roller

1) Remove the six screws, and then remove the upper guide.



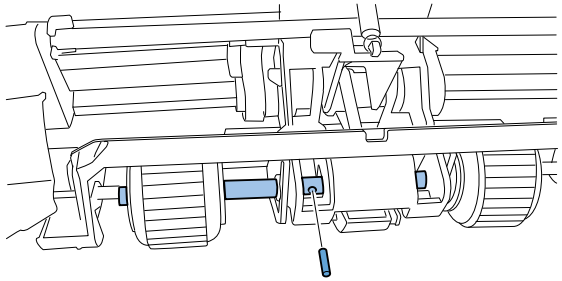
F-4-6

2) Remove the resin retaining ring , and then remove the offset roller.



F-4-7

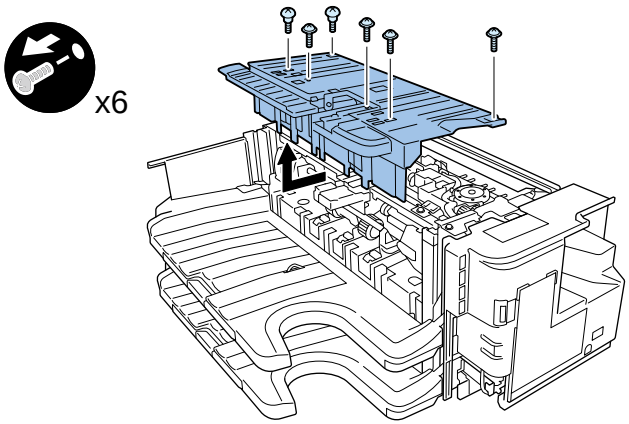
MEMO:
Do not move the shaft to the rear side , because the straight pin comes off from the shaft.



F-4-8

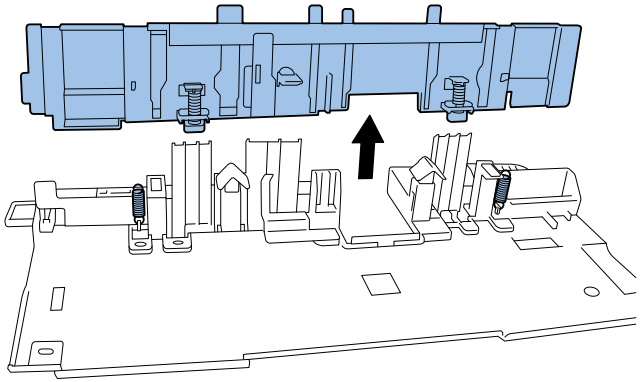
Removing the Shutter Unit

1) Remove the six screws, and then remove the upper guide.



F-4-9

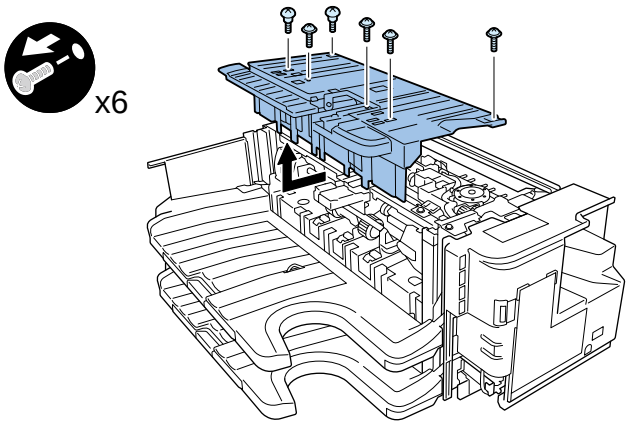
2) Remove the two springs from the upper guide, and then remove the shutter unit.



F-4-10

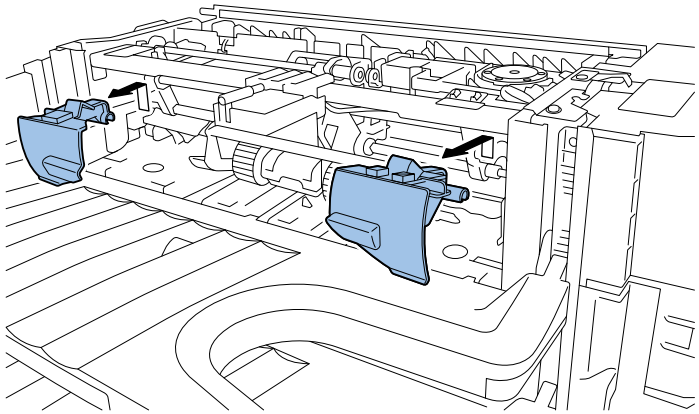
Removing the Paper retainer (front/rear)

1) Remove the six screws, and then remove the upper guide.



F-4-11

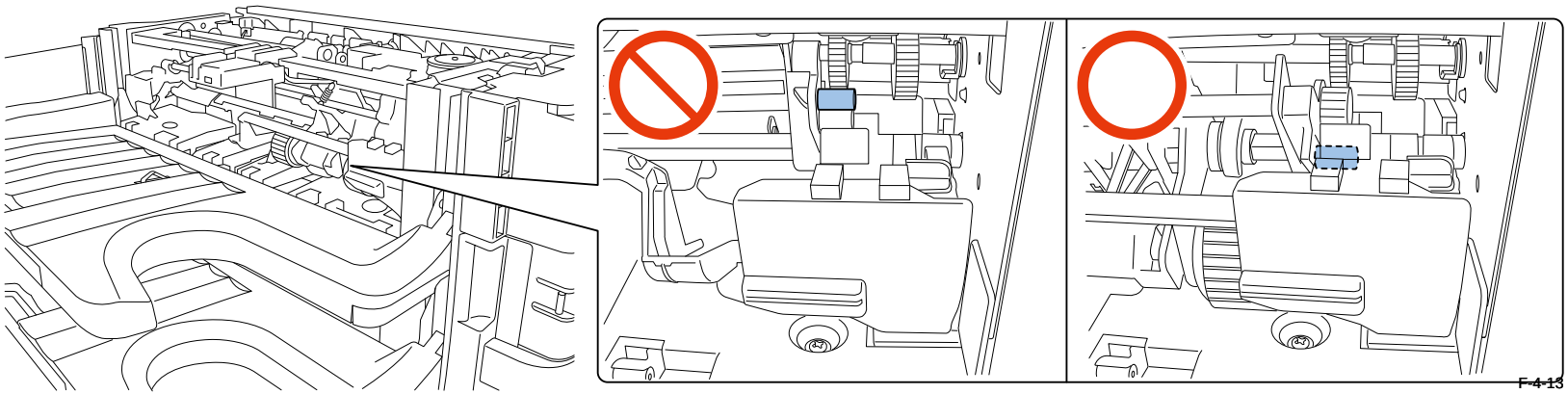
2) Remove the guide (front/rear).



F-4-12

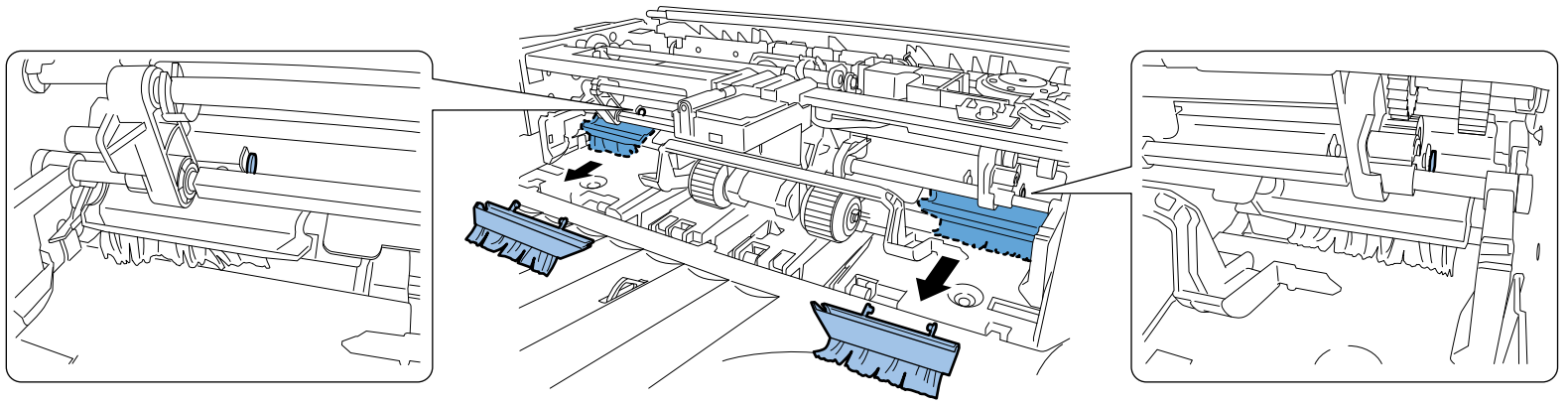
CAUTION:

When attaching the guide (front/ rear), attach the guide so that the pin may hide behind the guide as follows.



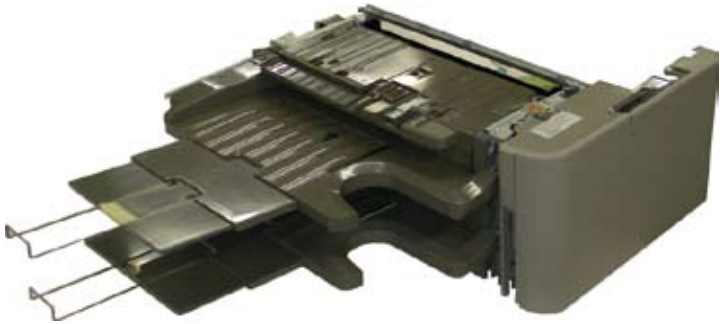
F-4-13

3) Using a flat-blade screw driver or the like, remove the hooks of the paper retainer (front/rear), and then remove the paper retainer (front/rear)



F-4-14

5 Installation(Inner Finisher-A1)



- Checks to Make before Installation
- Checking the Supplied Parts
- How to Utilize This Installation Procedure
- Installation Procedure

Making Pre-installation Checks

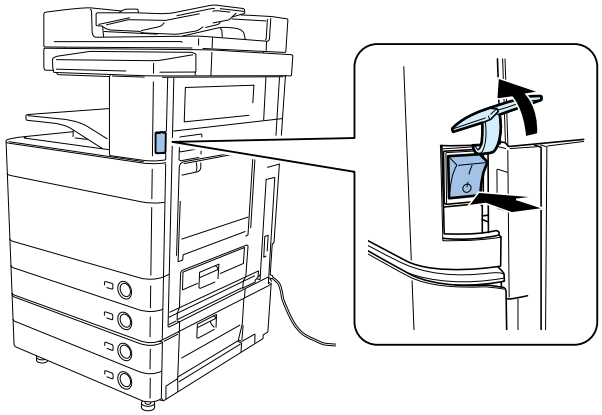
Cautions at the Time of Installation

□1

1. How to Disconnect the Main Power

1)Turn OFF the main power switch of the Host Machine.

2)Be sure that the Control Panel Display and the Main Power Lamp are both turned OFF, and then disconnect the power plug.



F-5-1

MEMO
In case the USB Device Port-B1 is about to be installed in the host machine besides the Inner Finisher-A1, fit the DP support plate and the cables contained in a carton box of the USB Device Port-B1 prior to the installation of the Inner Finisher-A1.

If the USB Device Port-B1 has already been installed in the host machine, tentatively remove the device port body (except for the DP support plate and the cables) prior to the service manual of the Inner Finisher-A1.

Kontrollen vor der Installation (German/Deutsch)

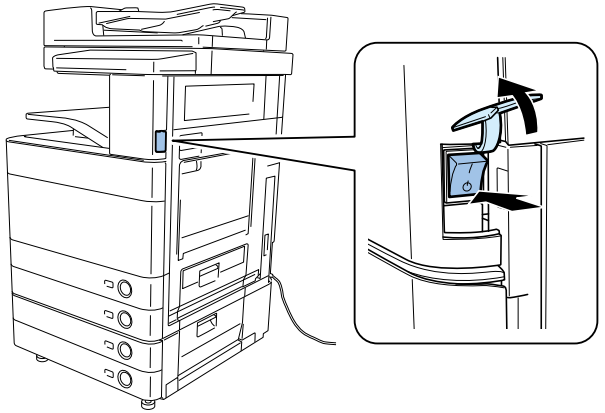
Vorsichtshinweise zur Installation

□1

1. Unterbrechen der Netzversorgung

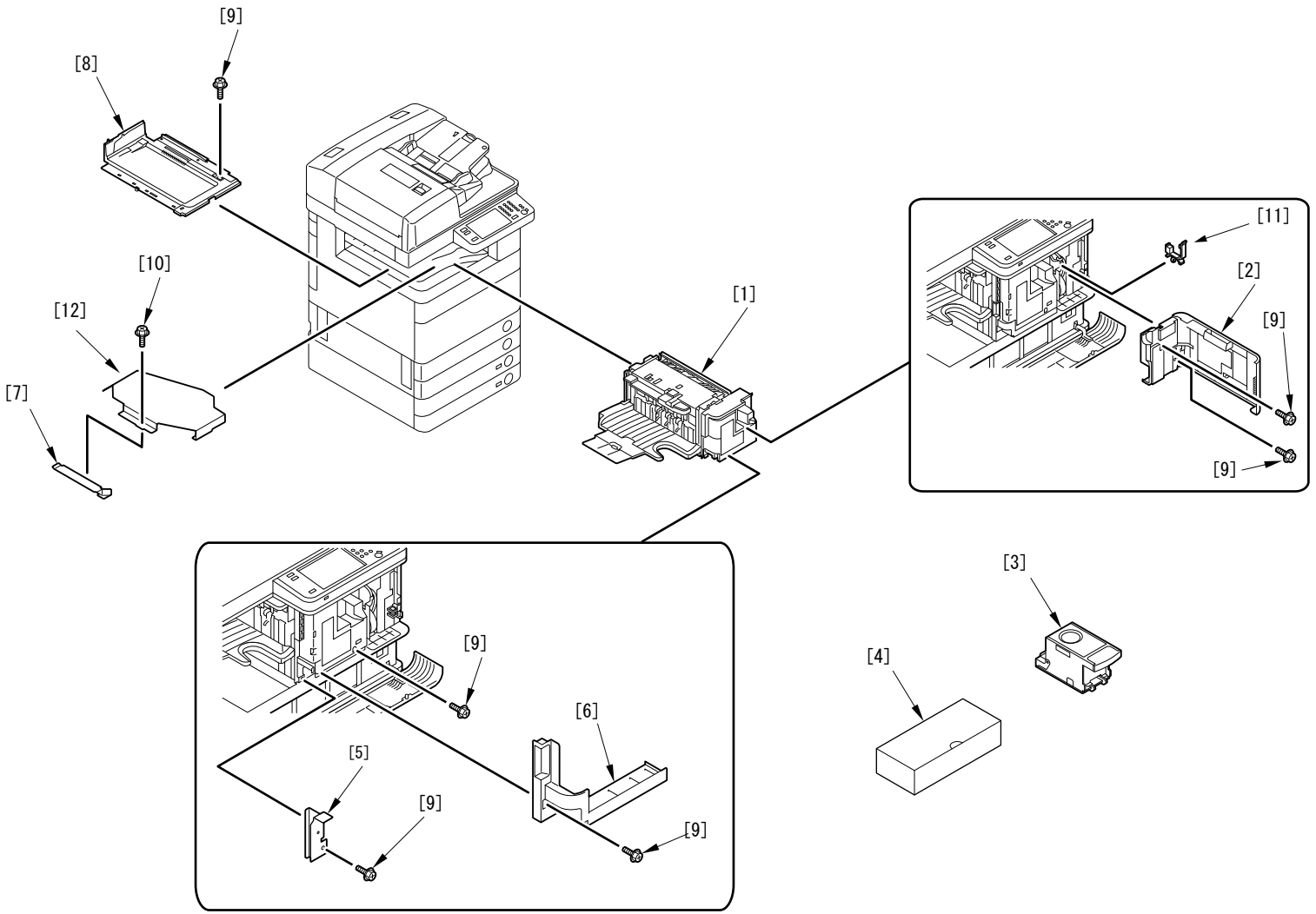
1) Schalten Sie den Netzschalter der Hostmaschine aus.

2) Überzeugen Sie sich zunächst, dass sowohl das Display auf dem Bedienfeld als auch die Netzstrom-Kontrolleuchte erloschen sind, und ziehen Sie dann den Netzstecker.



F-5-2

Checking Bundled Components



F-5-3

☐[1]	Finisher	1pc
☐[2]	Right front cover	1pc
☐[3]	Staple cartridge	1pc
☐[4]	Staple sheet	3pcs
☐[5]	Fixture	1pc
☐[6]	Front lower cover	1pc
☐[7]	Finisher guide	1pc
☐[8]	Tray lower cover	1pc
☐[9]	Screw(RS-tight,M3x6)	5pcs
☐[10]	Screw(Binding,M3x6)	1pc
☐[11]	Screw(Binding,M3x12)	1pc
☐[12]	Wire saddle	1pc
☐[13]	Harness cover	1pc
☐[14]	Main power label	1pc

How to Utilize This Installation Procedure

When Using the Contained Parts(Bundled Components in the Shipping Carton)

After unpacking, confirm the parts contained in the package by referring to the illustration of “Bundled Components” described in this procedure.
The below symbol appears on the illustration in some steps when the parts contained in the shipping carton are to be used.
Mind this symbol to be aware the parts contained in the shipping carton are to be used.

Packaged Item

Symbols in the Illustration

The frequently-performed operations/works are described with symbols in this procedure.
Check the description below.

Screw

Tighten

Remove

Connector

Connect

Disconnect

Harness

Secure

Free

Claw

Insert

Remove

Push

Plug in

Turn on

Checking instruction

Check

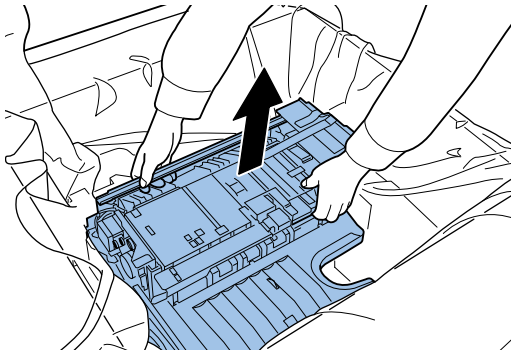
Visual Check

Sound Check

Installation Procedure

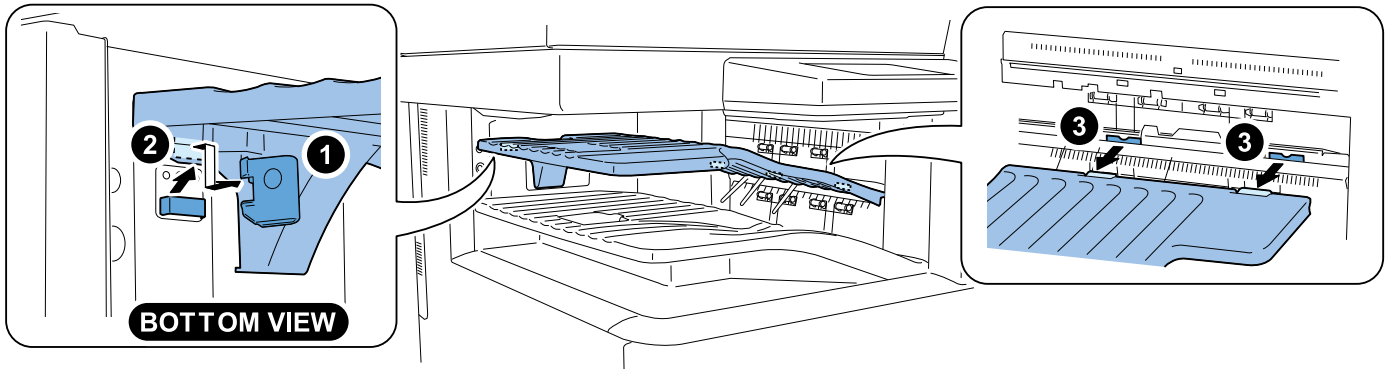
Installation Procedure

☐1
1) Hold the positions shown in the figure and take out the finisher from the carton and then remove the adhesive tapes and cushions.(Hold the positions specified by the instruction labels.)



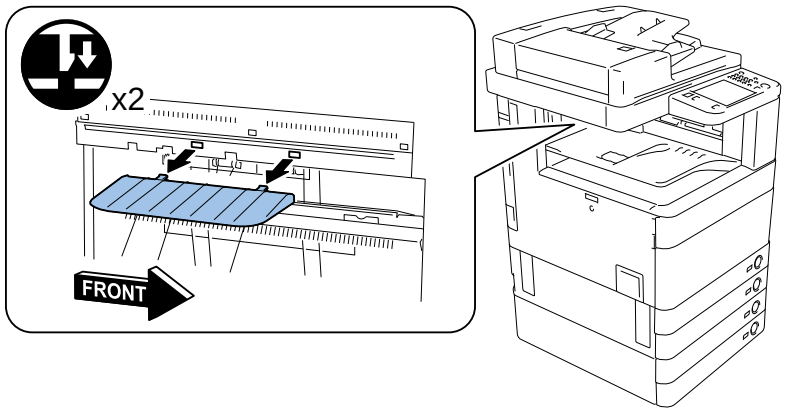
F-5-4

☐2
2) Remove the stopper and take out the 2nd delivery tray. (This step is applicable only when the 2nd delivery tray is installed in the host machine.)



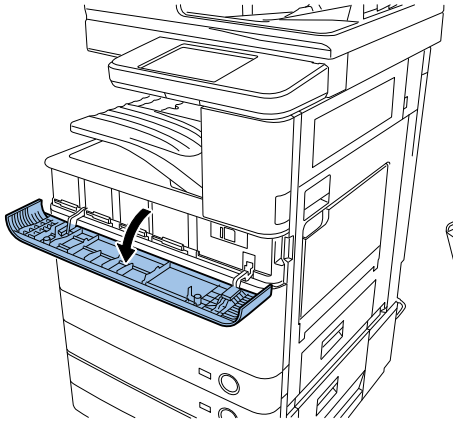
F-5-5

☐3
3) Remove the reversal guide.

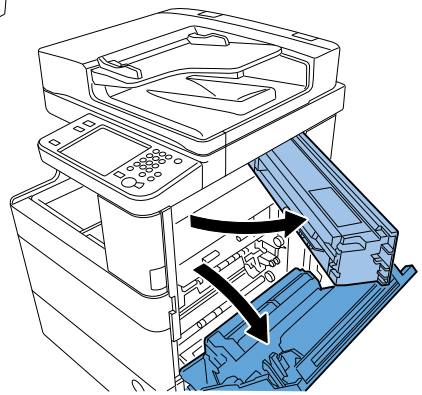


F-5-6

☐4
4) Open the toner cover and the right door of the host machine.

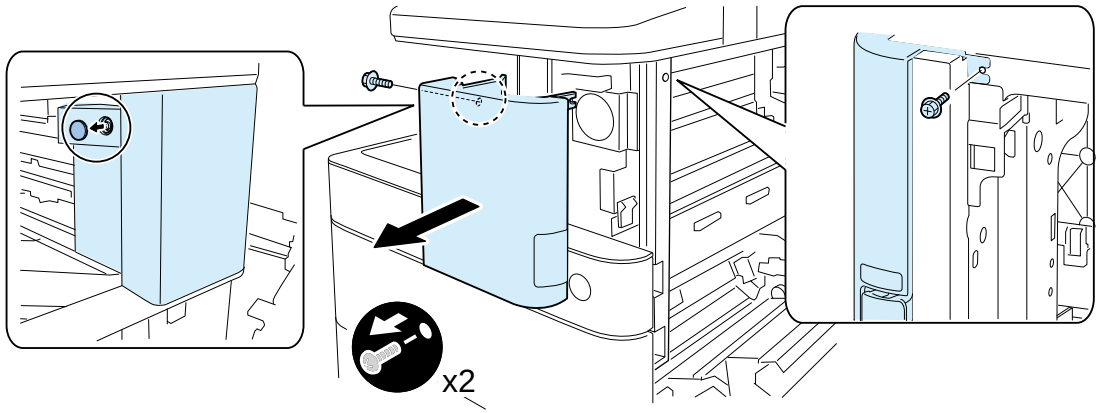


F-5-7



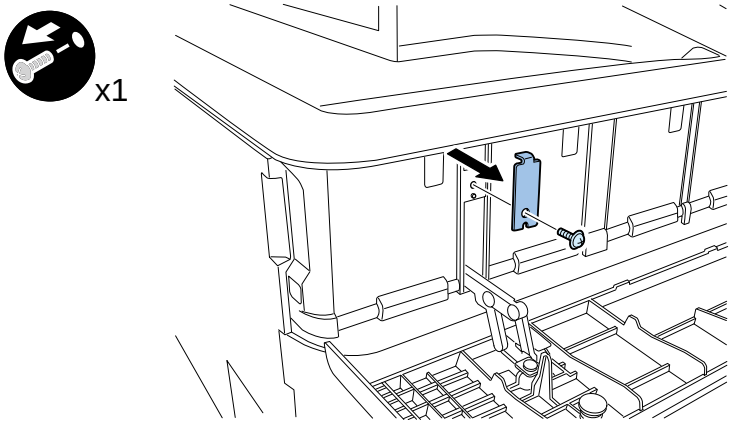
F-5-8

☐5
5) Remove 1 cap and 2 screws to detach the combined right front cover of the host machine and the inner cover.



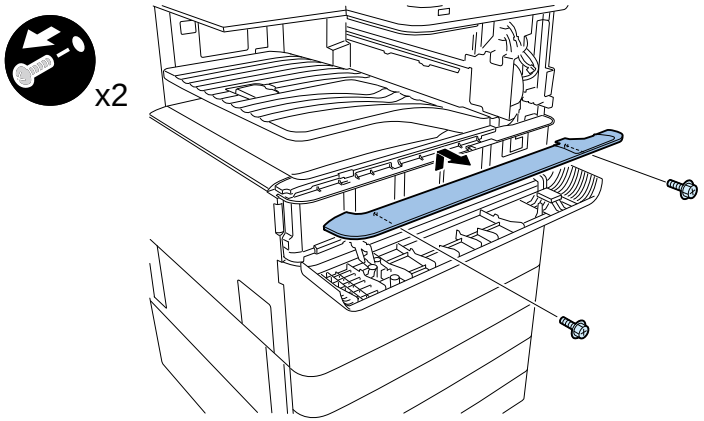
F-5-9

☐6
6) Remove 1 screw to detach the magnet catcher.



F-5-10

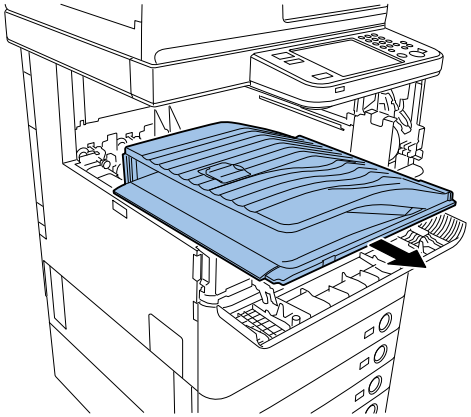
☐7
7) Remove 2 screws to detach the front silver cover.



F-5-11

☐8
8) Detach the combined delivery tray of the host machine and its lower cover.

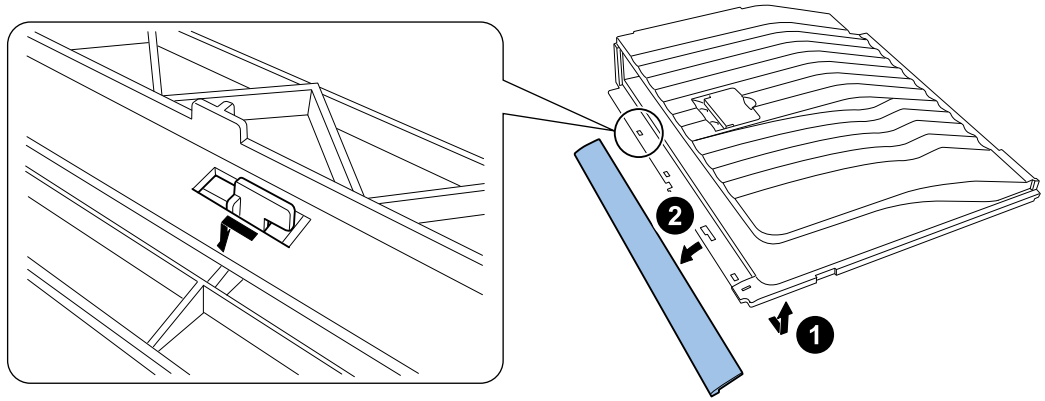
MEMO:It is good idea to place the paper in the host machine after removing the delivery tray to avoid screws falling in the host machine.



F-5-12

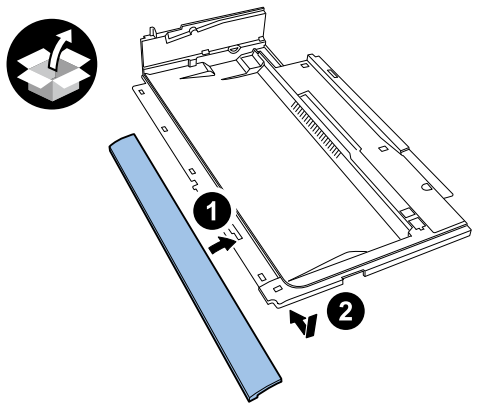
☐9
9) Release the fittings to remove the left silver cover from tray lower cover.

MEMO:
Slide the cover to the front side to release the fittings, and then lift it up.



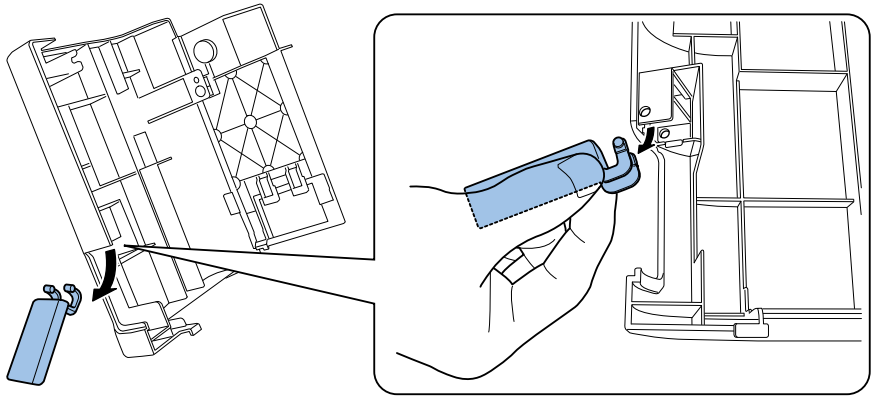
F-5-13

☐10
10) Fit the left silver cover removed at Step 9 to the supplied tray lower cover.



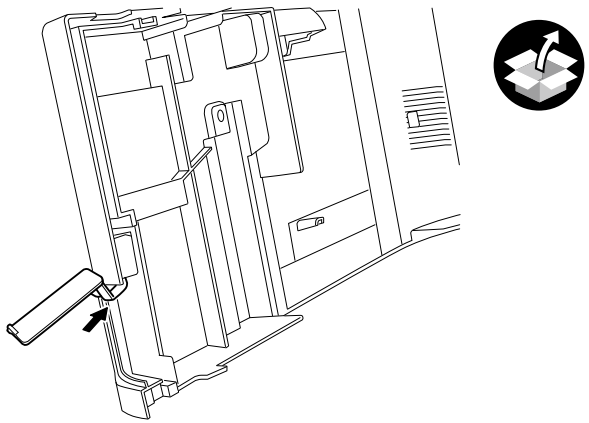
F-5-14

☐11
11) Release the fitting to remove the switch cover from the right front cover.



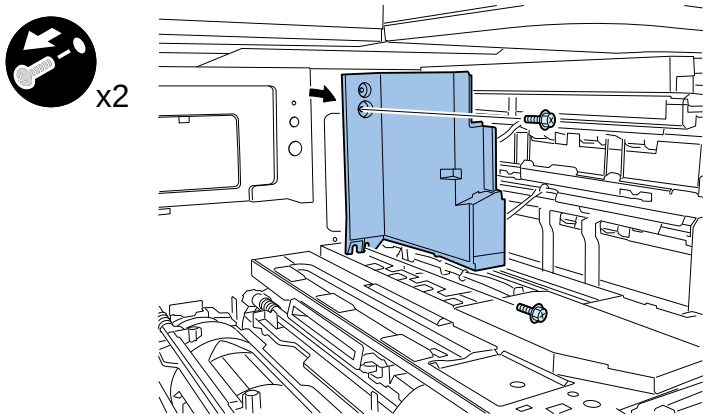
F-5-15

☐12
12) Fit the switch cover removed at Step 11 to the Right front cover.



F-5-16

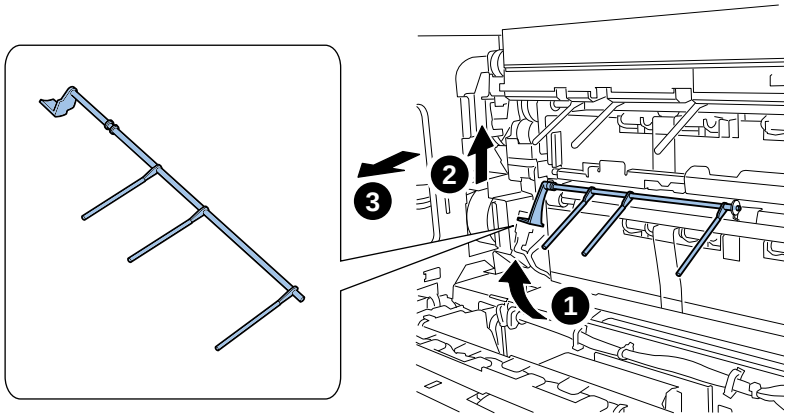
☐13
13) Remove 1 cap and 1 screw to detach the inner cover (small) of the host machine.



F-5-17

☐14
14) Remove the sensor flag of the 1st delivery tray.

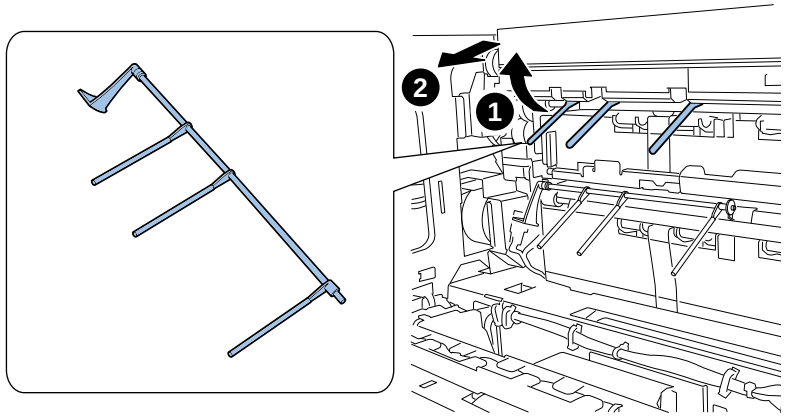
MEMO:
Bend the sensor flag shaft a little to remove it.



F-5-18

☐15
15) Remove the sensor flag of the 2nd delivery tray.
(This step is applicable only when the 2nd delivery tray is installed in the host machine.)

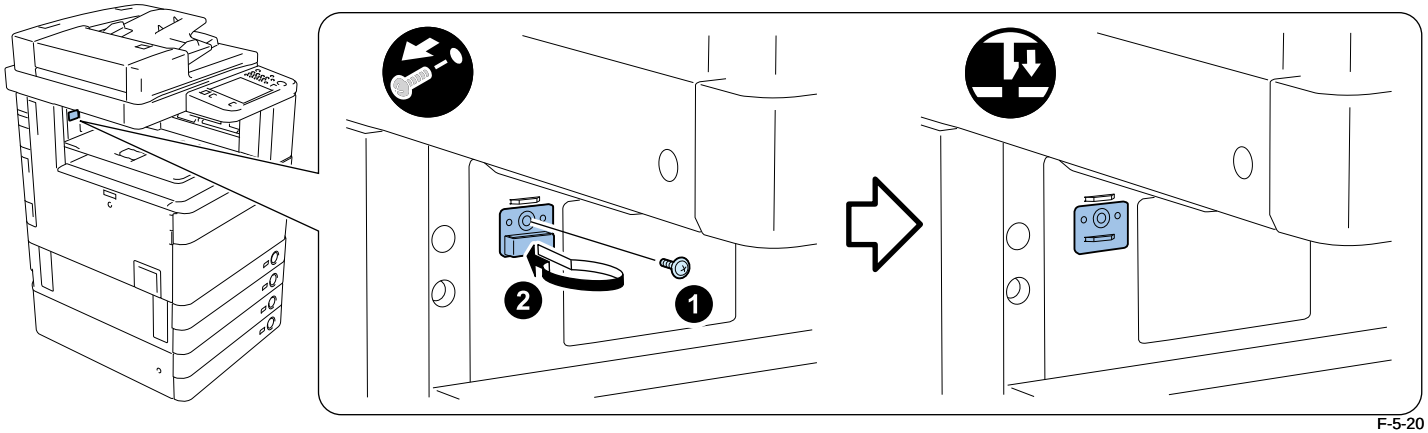
MEMO:
Bend the sensor flag shaft a little to remove it.



F-5-19

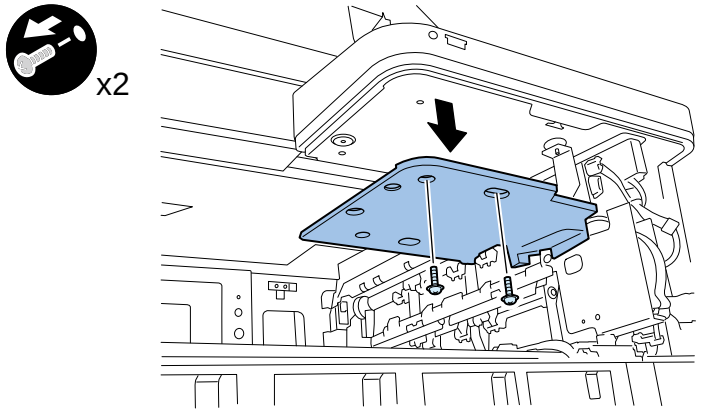
☐16
16) Remove 1 screw to detach the small cover. Reverse the small cover and restore it to the original position. Removed screw is no longer reused for the installation.
(This step is applicable only when the 2nd delivery tray is installed in the host machine.)

MEMO:
The removed screw is no longer reused.



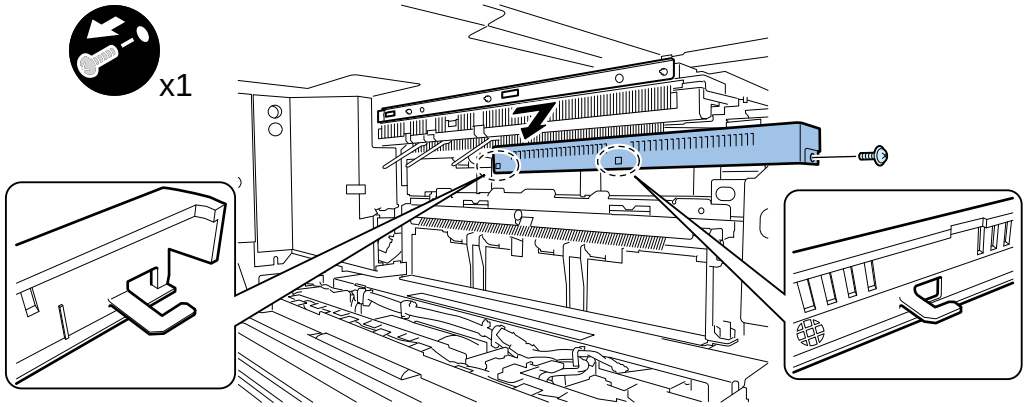
F-5-20

☐17
17) Remove 2 screws to detach the control panel lower cover.



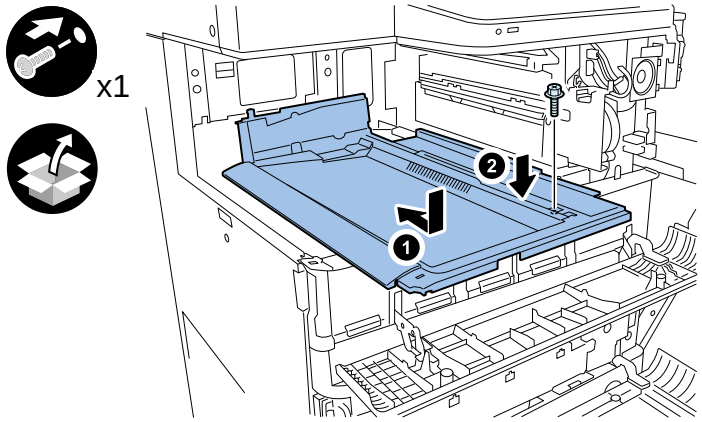
F-5-21

☐18
18) Remove 1 screw and detach the protection cover at delivery part by shifting it to the front side.
Remove the paper placed at the step 8).



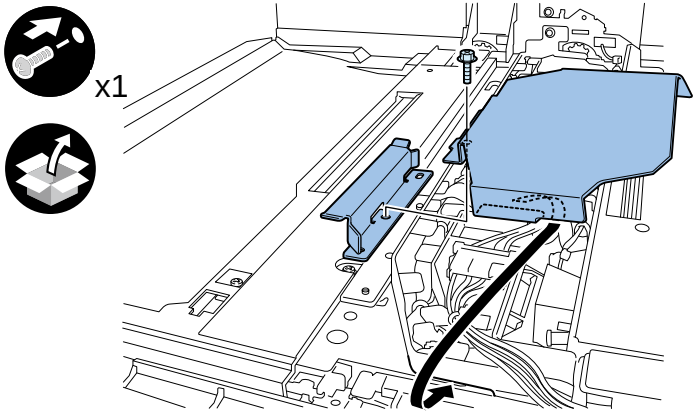
F-5-22

☐19
19) Slide the tray lower cover to rear side until it stops while pressing it down and fix it by 1 screw (binding screw, M3x6) using a stubby screwdriver.



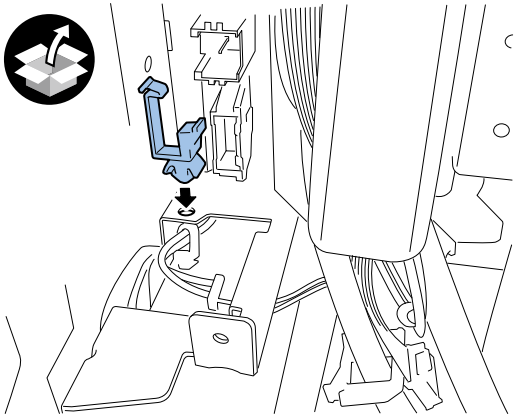
F-5-23

☐20
20) Fix the supplied harness cover and finisher guide with 1 screw (binding screw, M3x12) using a stubby screwdriver.



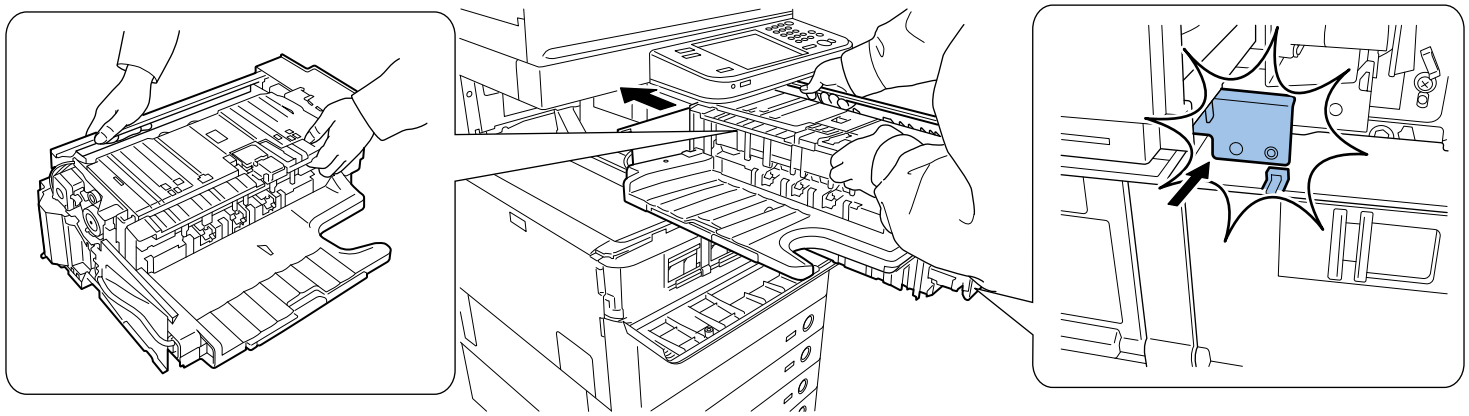
F-5-24

☐21
21) Fix the wire saddle to the upper side of the fan.



F-5-25

☐22
22) Hold the positions shown in the figure and lift the finisher, and then set the finisher into the host machine.

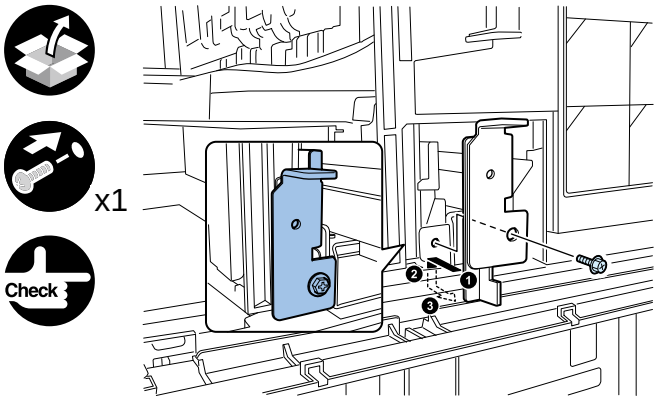


F-5-26

CAUTION:

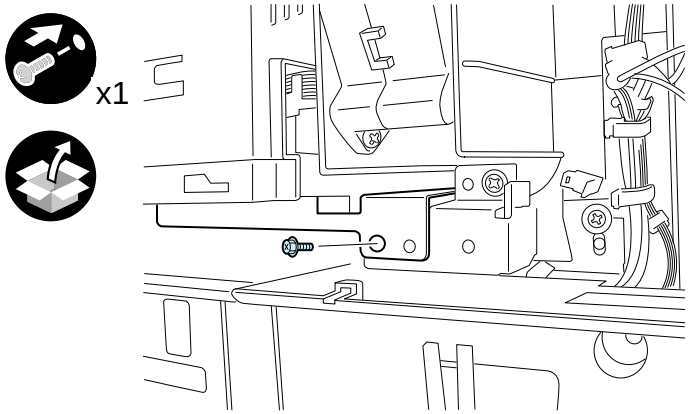
When setting the finisher in the host machine, be careful so that the right lower plate does not touch the hook of the silver cover.

☐23
23) Fit the fixture with 1 screw (RS-tight screw, M3x6).



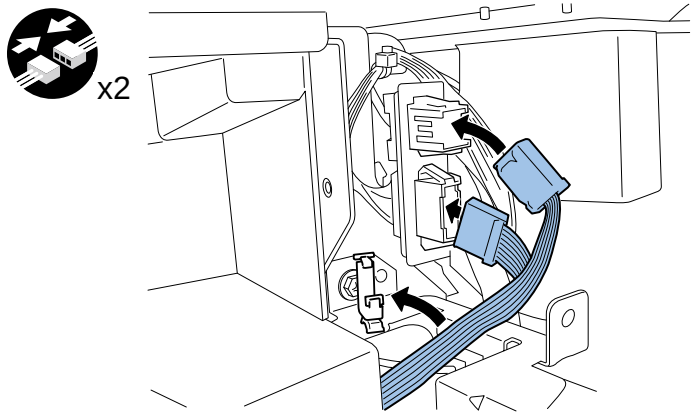
F-5-27

☐24
24) Fix the right side of the finisher to the host machine with 1 screw (RS-tight screw, M3x6).



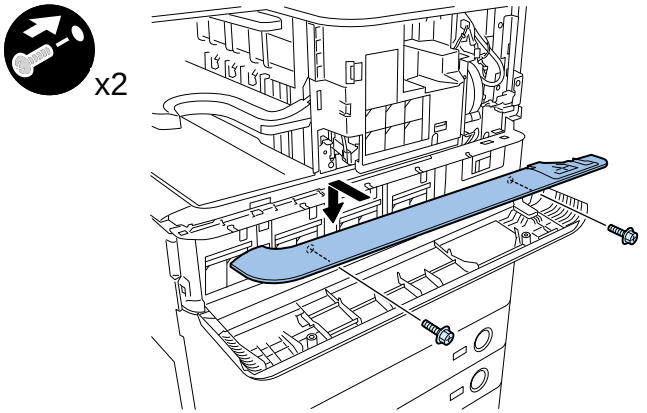
F-5-28

☐25
25) Pass the interface cable through the wire saddle fixed at Step 21 and attach the connectors to the host machine connectors.



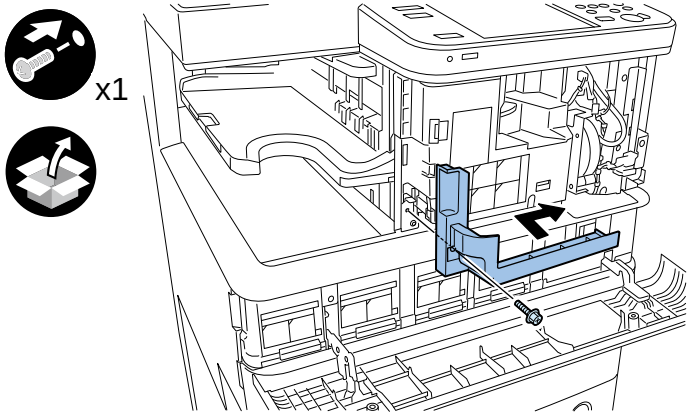
F-5-29

☐26
26) Fix the front silver cover with 2 screws removed at Step 7.



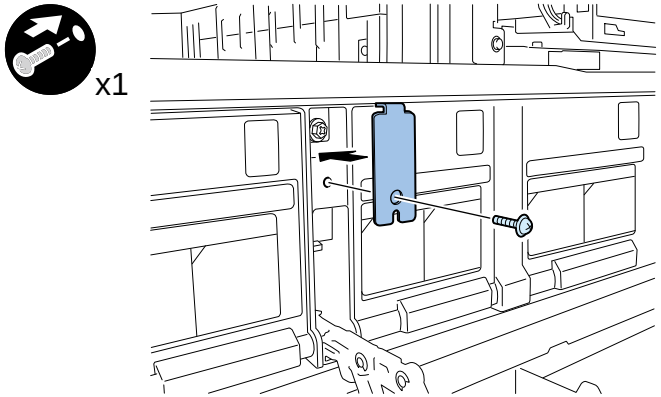
F-5-30

☐27
27) Fix the supplied front lower cover with 1 screw (RS-tight screw, M3x6).



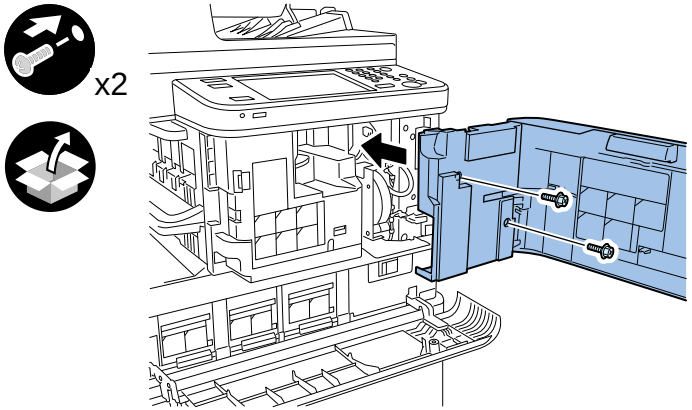
F-5-31

☐28
28) Fix the magnet catcher with 1 screw removed at Step 6.



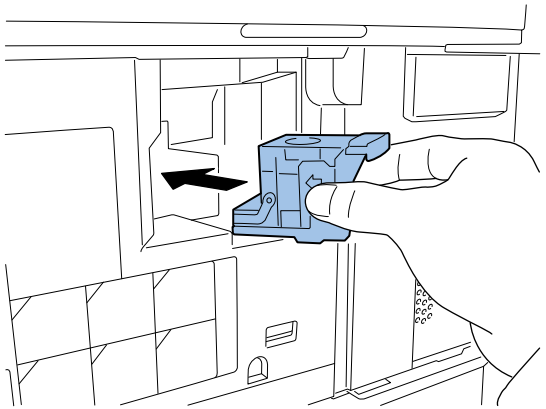
F-5-32

☐29
29) Fix the combined right front cover and inner cover contained in the finisher carton box with 2 screws (RS-tight screw, M3x6).



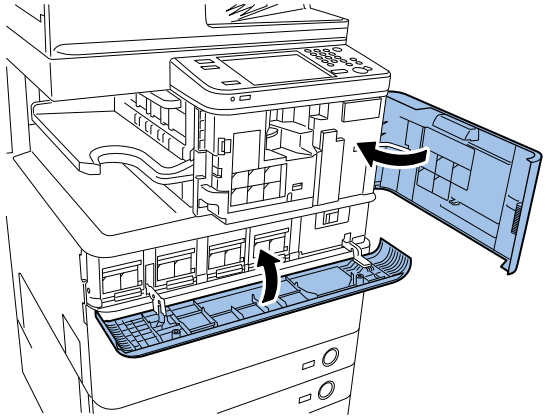
F-5-33

☐30
30) Set the supplied staple cartridge into the stapler.



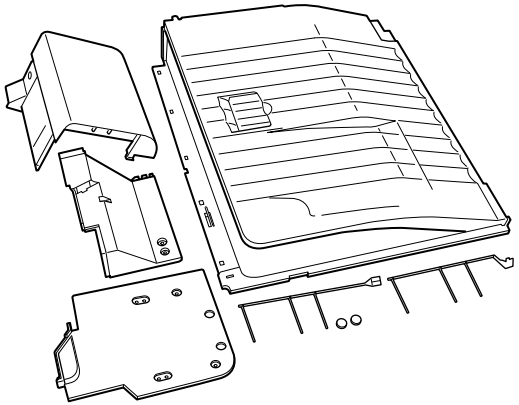
F-5-34

☐31
31) Close all the external covers.
Stick the supplied main power label on the upper part of the main power switch.



F-5-35

☐32
32) The following parts remain after installing the finisher. Make sure not to leave the remained parts at the site.



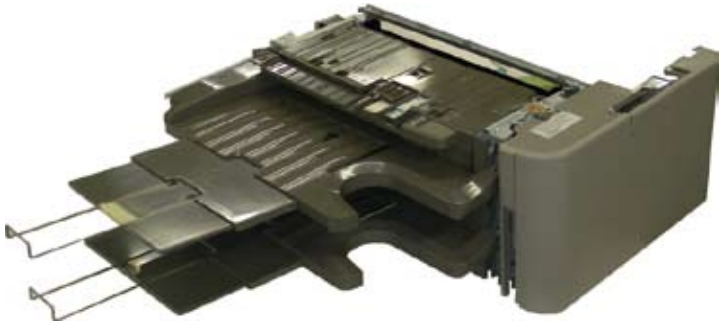
F-5-36

Delivery tray	1 pc.
2nd delivery tray	1 pc.(*1)
Stopper	1 pc.(*1)
Reversal guide	1 pc.
Right front cover	1 pc.
Inner cover (small)	1 pc.
Control panel lower cover	1 pc.
Sensor flag	1 pc.(*2)
Cap	2 pcs.
Protection cover	1 pc.

*1 only when the 2nd delivery tray is installed in the host machine
*2 2 pcs. only when the 2nd delivery tray is installed in the host machine

6

Installation(Addtional Tray-A1)



- Checks to Make before Installation
- Checking the Supplied Parts
- How to Utilize This Installation Procedure
- Installation Procedure

Making Pre-installation Checks

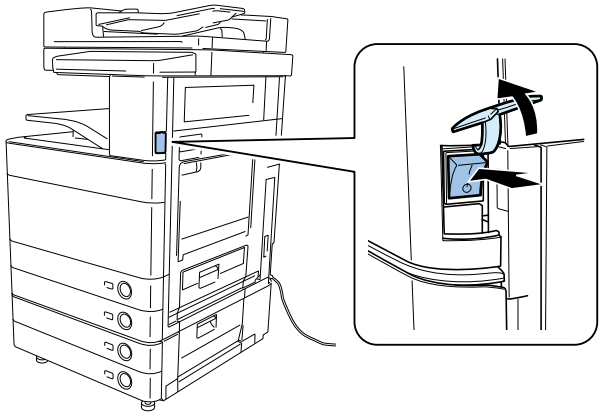
Cautions at the Time of Installation

□1

1. How to Disconnect the Main Power

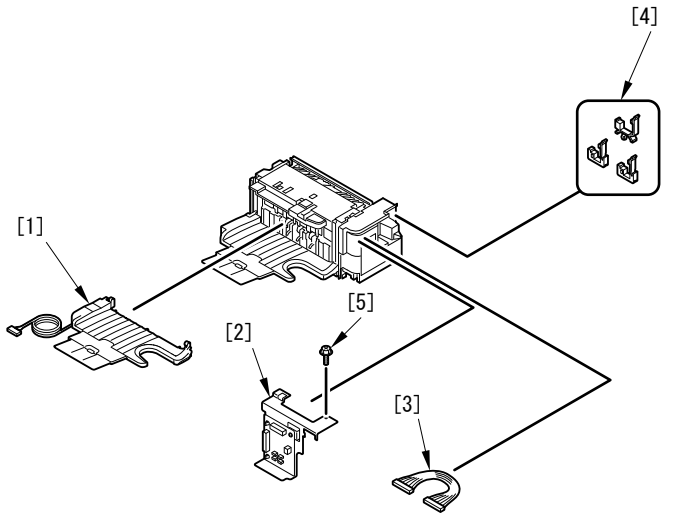
1)Turn OFF the main power switch of the Host Machine.

2)Be sure that the Control Panel Display and the Main Power Lamp are both turned OFF, and then disconnect the power plug.



F-6-1

Checking Bundled Components



F-6-2

☐[1]	Additional tray	1pc.
☐[2]	Driver PCB	1pc.
☐[3]	Relay harness	1pc.
☐[4]	Wire saddles	3pcs.
☐[5]	Screw(RS-tight, M3 x 6)	1pc.

How to Utilize This Installation Procedure

When Using the Contained Parts(Bundled Components in the Shipping Carton)

After unpacking, confirm the parts contained in the package by referring to the illustration of “Bundled Components” described in this procedure.
The below symbol appears on the illustration in some steps when the parts contained in the shipping carton are to be used.
Mind this symbol to be aware the parts contained in the shipping carton are to be used.

Packaged Item

Symbols in the Illustration

The frequently-performed operations/works are described with symbols in this procedure.
Check the description below.

Screw

Tighten

Remove

Connector

Connect

Disconnect

Harness

Secure

Free

Claw

Insert

Remove

Push

Plug in

Turn on

Checking instruction

Check

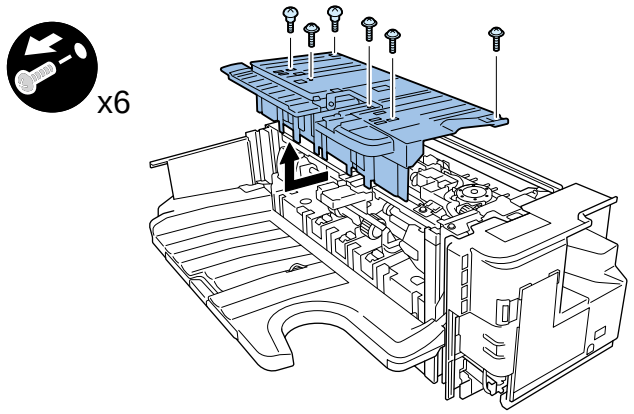
Visual Check

Sound Check

Installation Procedure

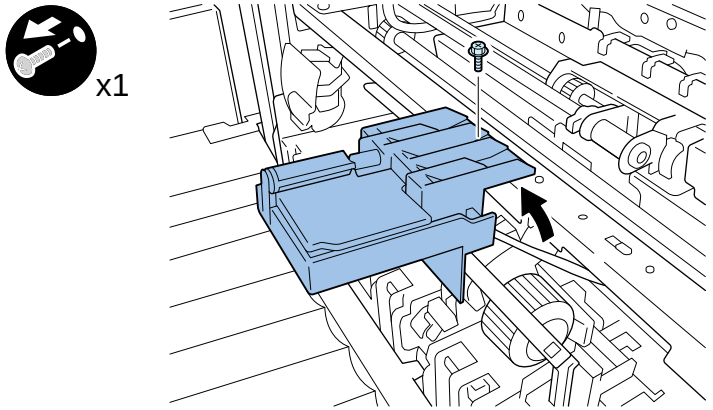
Preparation to install in the host machine

☐1
1)Remove the 6 screws to detach the upper guide.



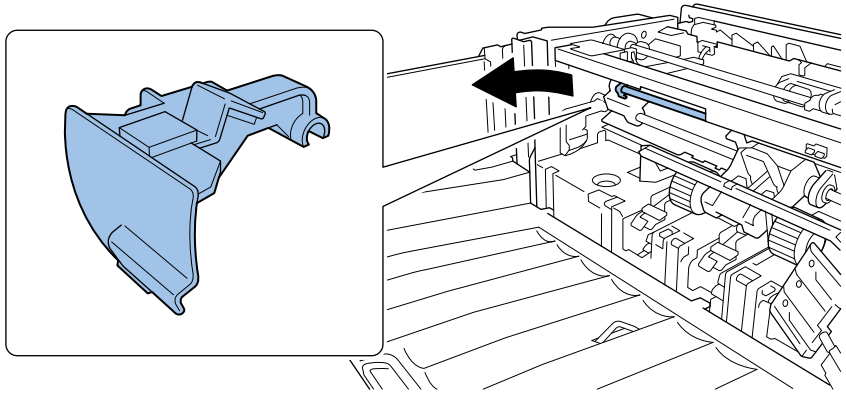
F-6-3

☐2
2)Remove the screw to free the safety switch sensor unit.



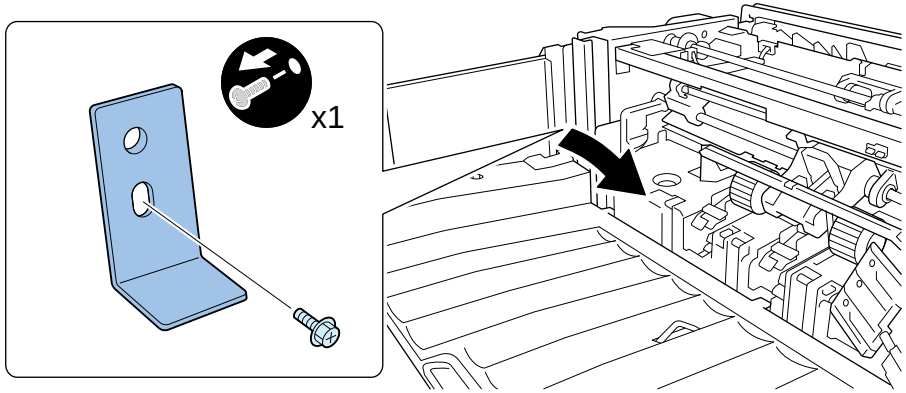
F-6-4

☐3
3)Simply pull and remove the guide from the shaft as shown.



F-6-5

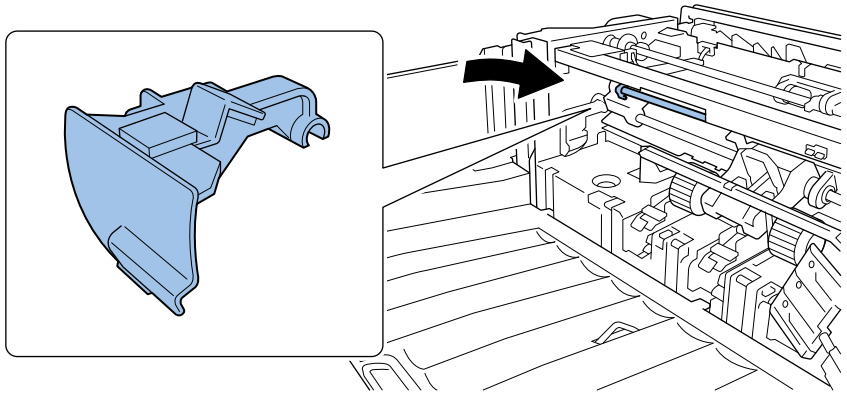
☐4
4)Remove the screw to detach the stopper from the rail.
Note: The removed screw and stopper are no longer required.



F-6-6

☐5

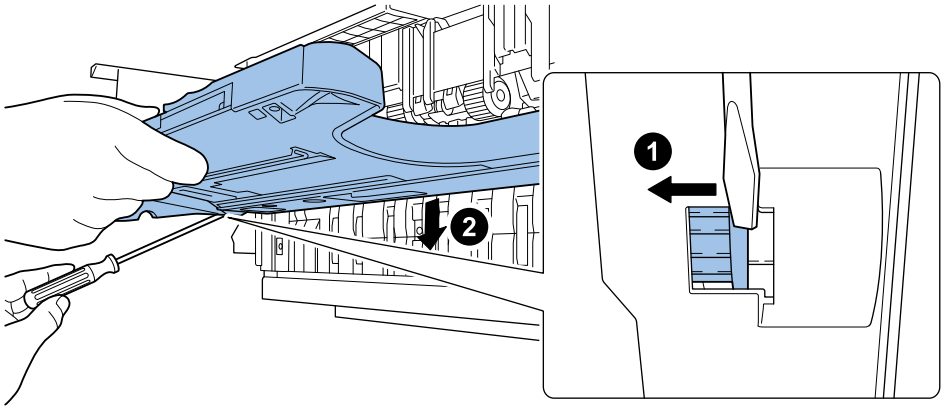
5)Fit the guide removed in Step 3.



F-6-7

☐6

6)Hold the standard tray by hand and insert a screwdriver in the tray bottom hole for releasing the ratchet gear to have the tray down.

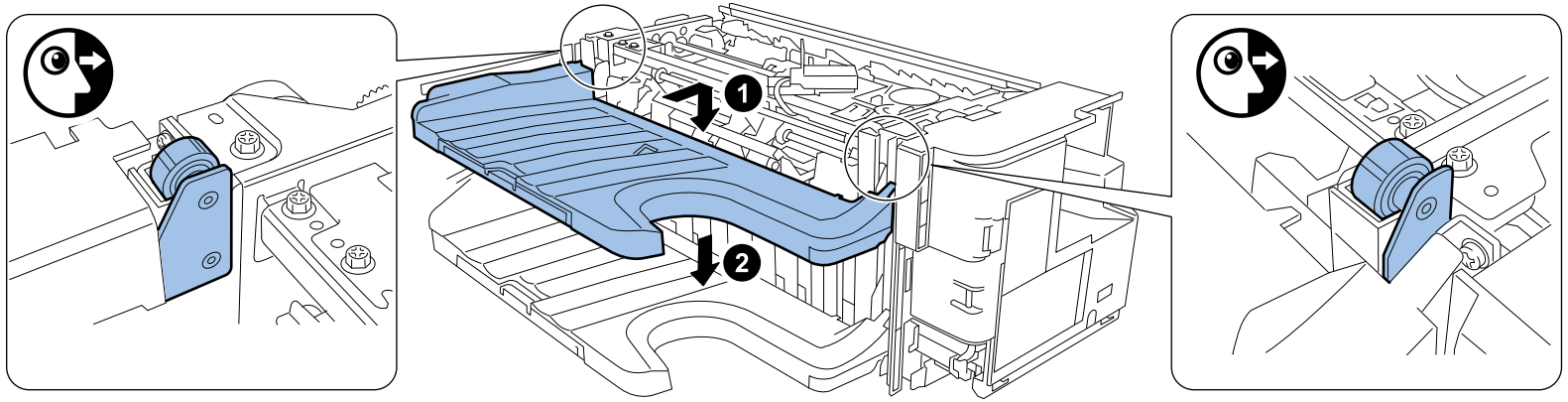


F-6-8

Connecting to Connected Equipment

☐7

7)Set the guide wheels of the additional tray to the finisher rail and move the additional tray down with the same way as Step 6.

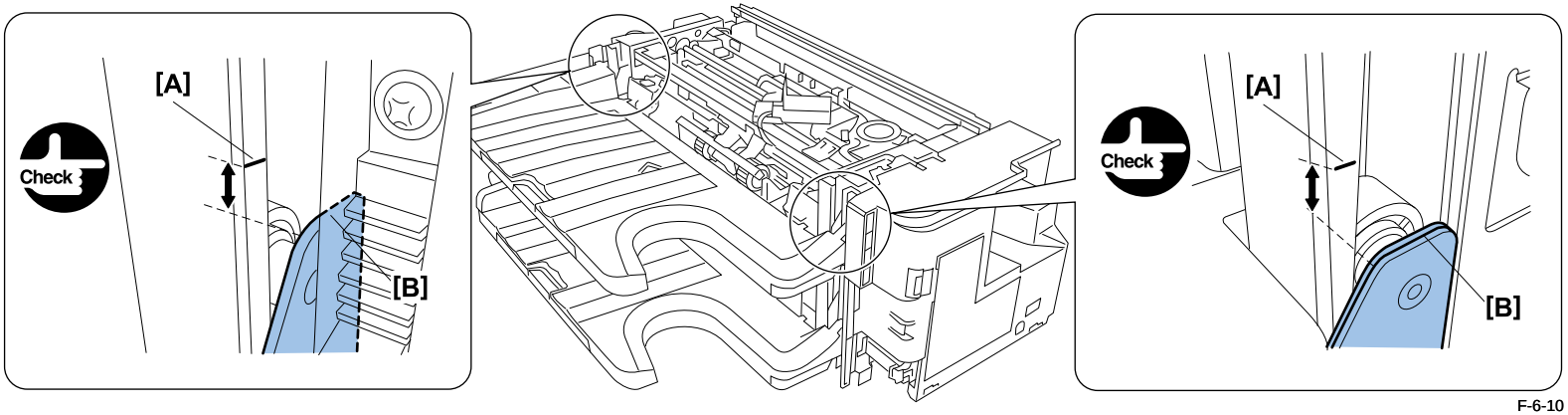


F-6-9

Note:

Confirm that the tray does not incline.

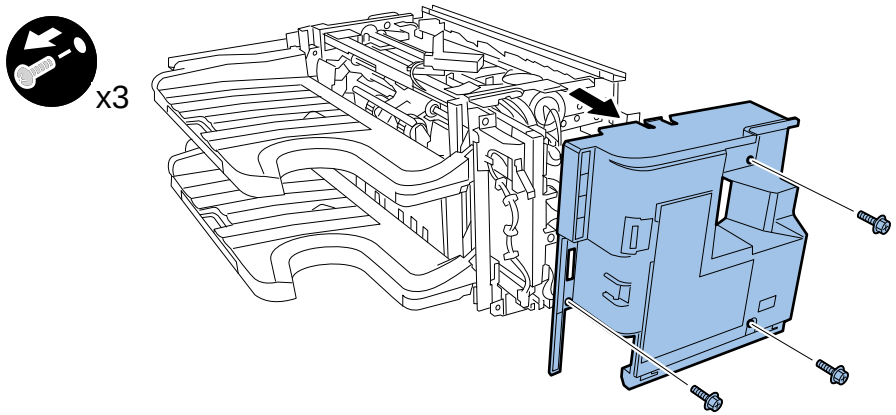
The marking [A] and the top edge of the frame [B] should be in a level.



F-6-10

☐8

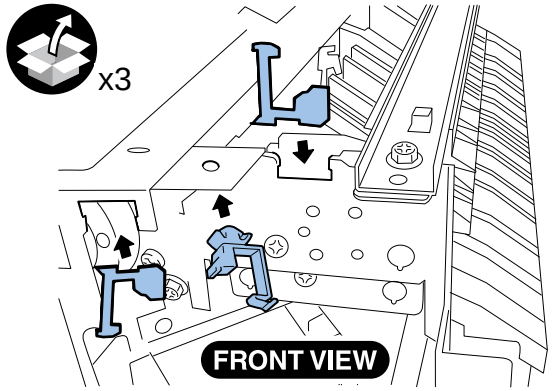
8)Remove the 3 screws to detach the inner front cover.



F-6-11

☐9

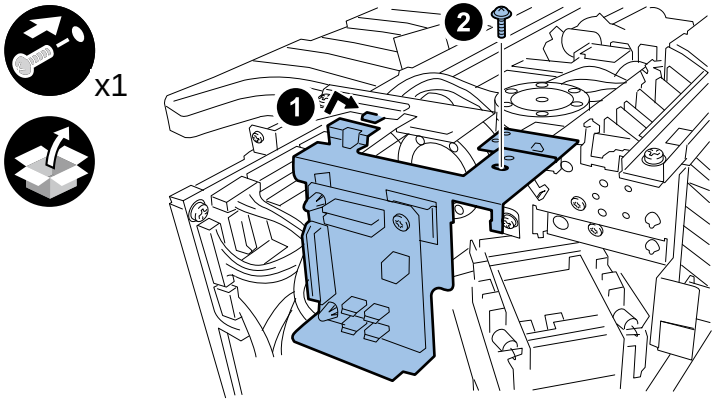
9)Fix the supplied 3 wire saddles.



F-6-12

☐10

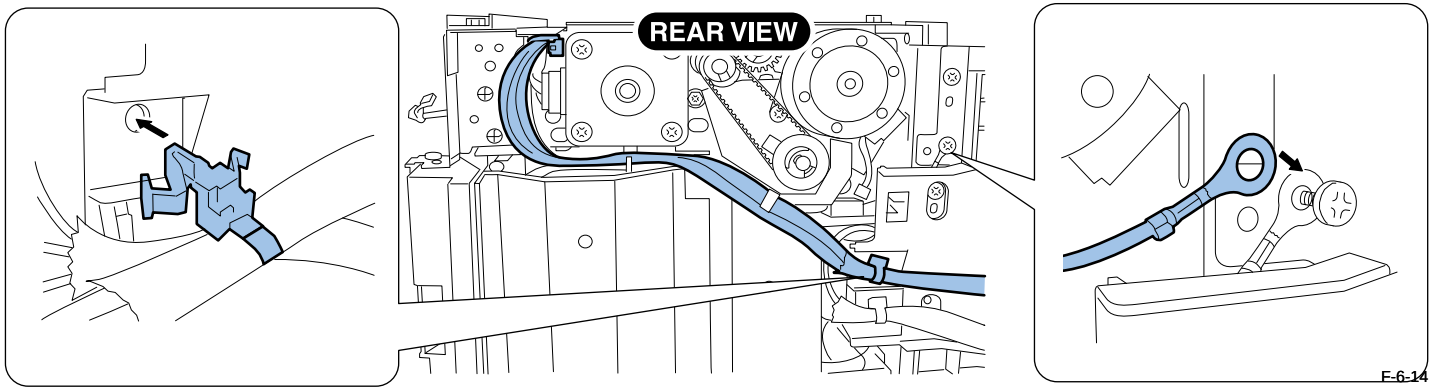
10)Fix the additional tray driver PCB with the supplied screw.



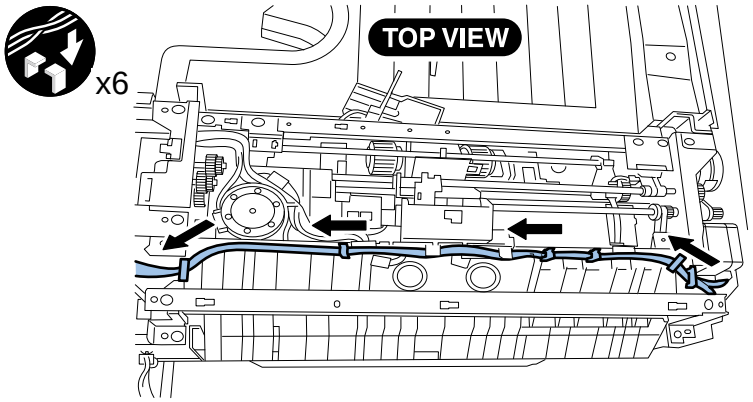
F-6-13

☐11

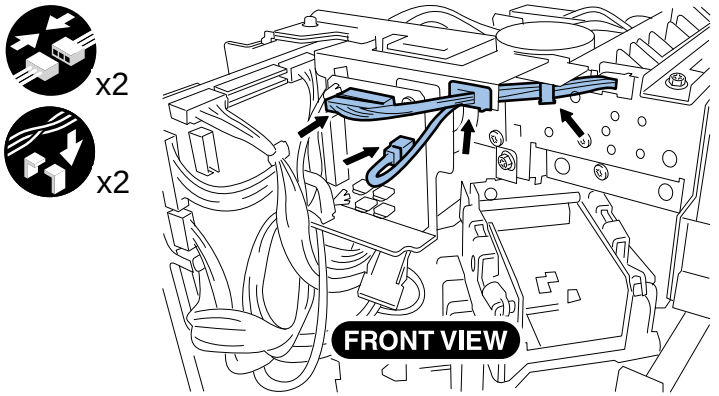
11)Route the tray harness from the rear to the front via the upside and pass it through the harness guide. Then joint the connector to the PCB fixed in Step 10. At the rear side, retain the reuse band to the harness guide and fix the earth wire together with the one of the standard tray.



F-6-14



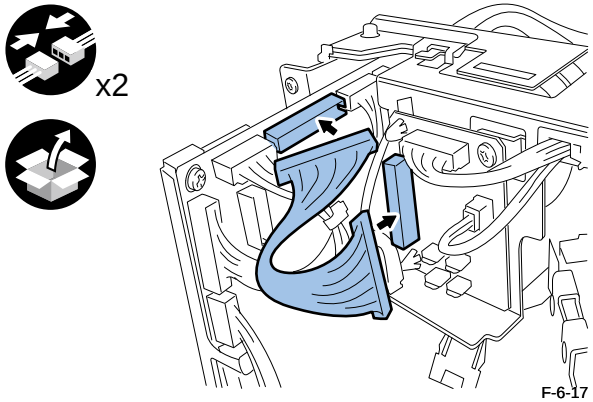
F-6-15



F-6-16

☐12

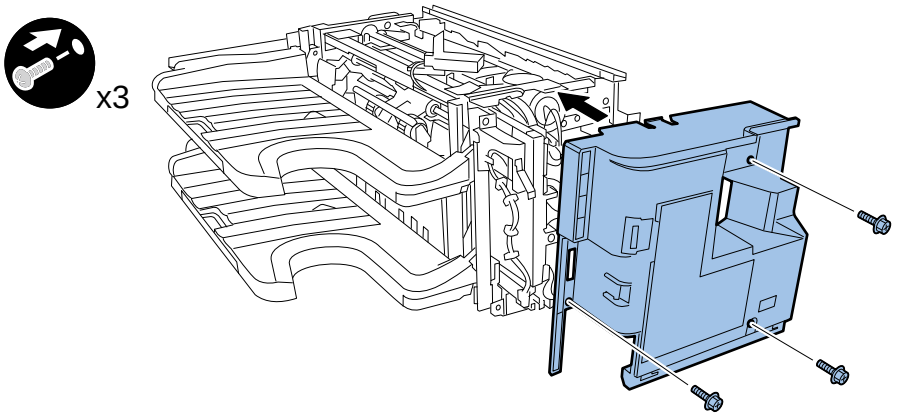
12)Joint the supplied relay harness to the connectors of the finisher controller PCB and the additional tray driver PCB.



F-6-17

☐13

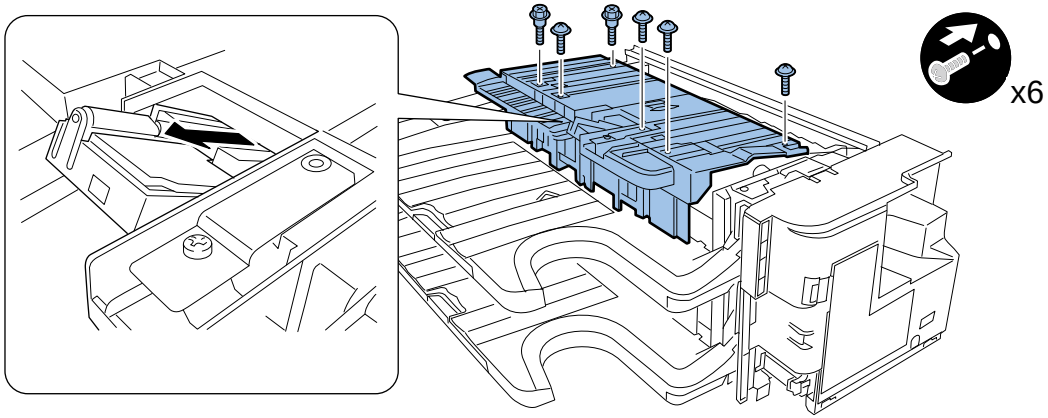
13)Fix the inner front cover removed in Step 9 with the 3 screws.



F-6-18

☐14

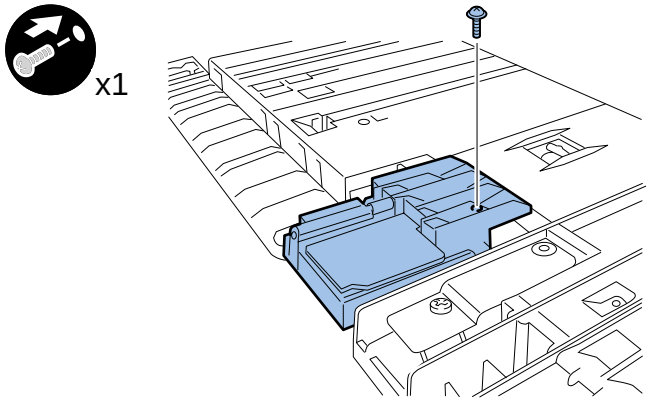
14)Put the upper guide as shown in the figure paying attentionto the safety switch sensor unit. Then fix it with 6 screws.



F-6-19

☐15

15)Fix the screw to secure the safety switch sensor unit.



F-6-20

Appendix

- Service Tools
- General Circuit Diagram

Service Tools

Solvents and Oils

No.	Name	Uses	Composition	Remarks
1	Vic Clean	Cleaning: e.g., glass, plastic, rubber parts, external covers	Hydrocarbon (fluorine family), Alcohol, Surface activating agent, Water	Do not bring near fire.Procure locally.Isopropyl alcohol may besubstituted.

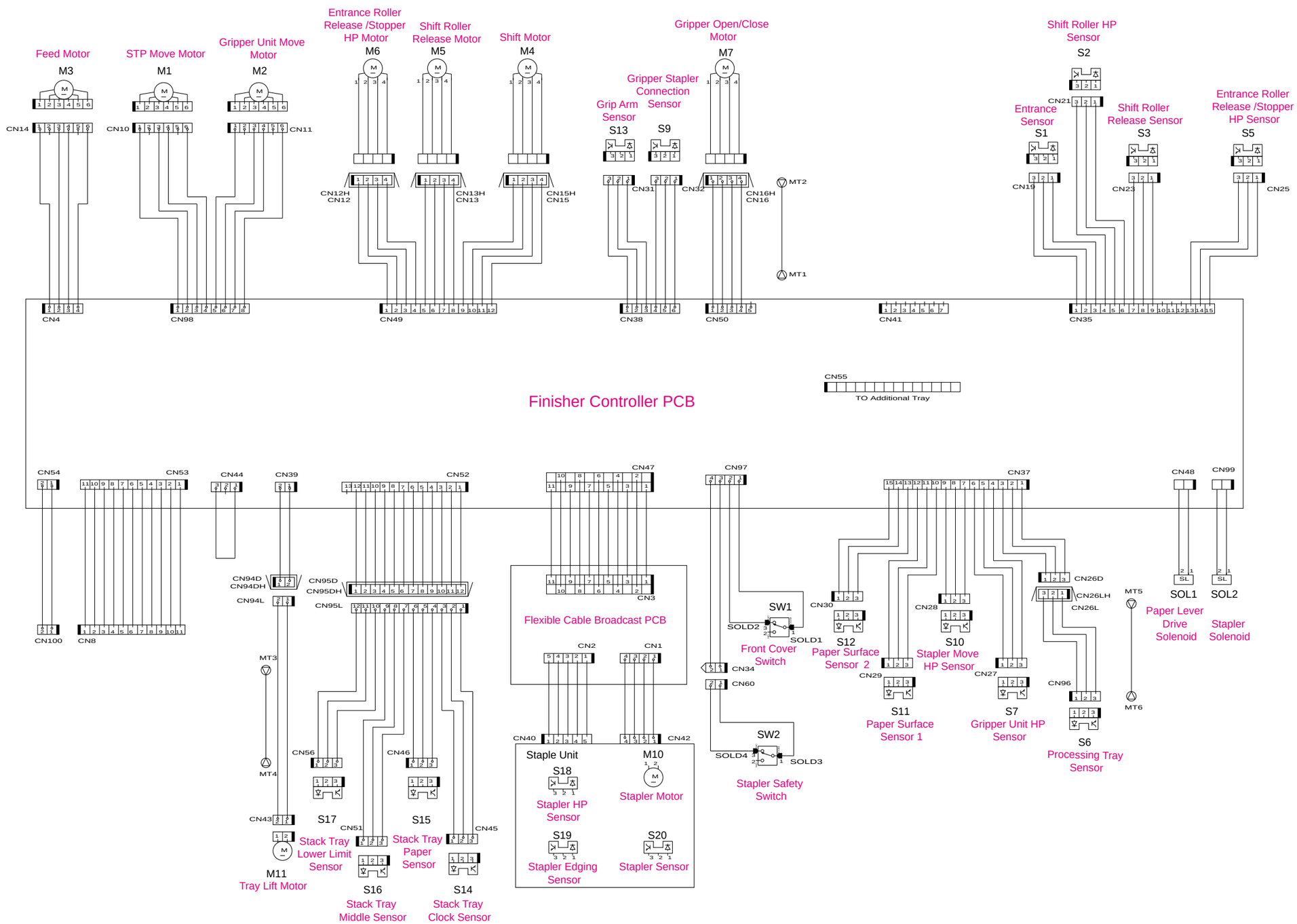
T-6-1

Special Tools

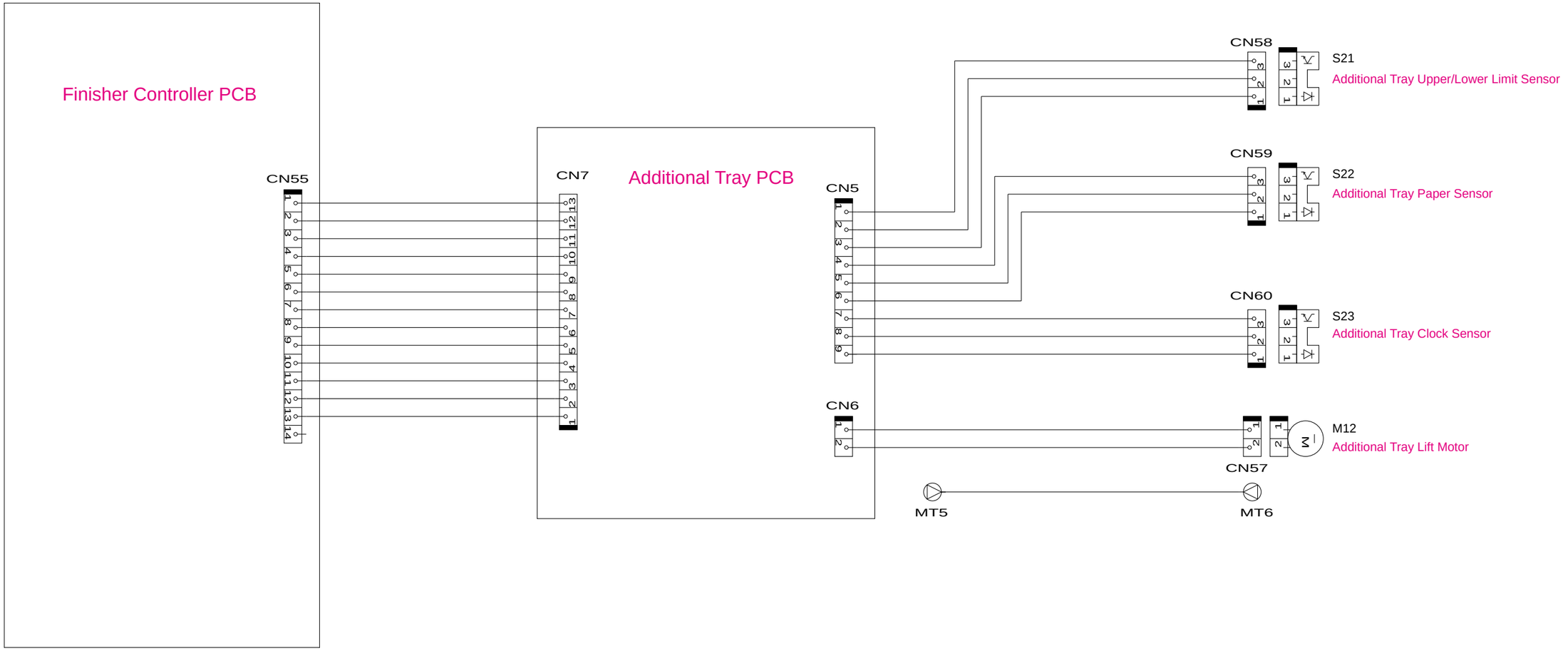
None

General Circuit Diagram

Inner Finisher-A1



Additional Tray-A1



Appendix > General Circuit Diagram